

International Greenkeepers

- 2022 Turf Pesticide manual-



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Gilba Solutions - a solution driven approach to any agronomic issues that you may have.



Gilba Solutions are truly independent

With over 30 years experience in sports turf consultancy and agronomy in both Australia and Europe, Gilba Solutions offer a unique service to the Australian turf industry. More than simply a supply company they are able to take a highly practical approach and develop tailored solutions to meet clients needs. This coupled with extensive supplier relationships means that we are able to source exactly what is required rather than simply what is in stock.



Plant Protection

Just because its made in Australia does not mean a reduction in quality. Many innovative companies exist in the Australian turf industry and, because of their familiarity with the local conditions are able to offer tailored solutions specific to Australia. Indigo Specialty are a prime example of this.

- Insecticides
- Herbicides
- Fungicides
- Pigments
- Elicitors of Plant Response (EPR)

Being more environmentally responsible and using less pesticide whilst maintaining quality surfaces should be the aim of all turf professionals. The introduction of Vertmax Duo with QDT™ technology addresses this.

SeeGrow-Grass™

A patented Grass growing system using a patented LED light & CO₂ atmosphere. Proven 10mm /24 hours leaf growth & a 28% increase of dry root weight over existing light rigs.

- Savings of 60 to 80% in electricity use.
- 5 times more efficient than HPS lamps
- Uses technology which is specific to grass
- 80 to 90% reduction in carbon footprint
- Grow 10mm healthy grass per 24 hours and strengthen roots for extra durable results.

SeeGrow-Grass™ are a highly innovative company focusing on improving sportsturf performance and growth. They also offer:

- Enka Protect pitch protection solutions
- Turf fans designed specifically for golf courses and sports grounds.
- Pesticide free pest control solutions.

Omne Turf™

Omne™ sensors consisting of Clima, Aqua, Atom and Terra. They are designed for the turf industry providing real-time data. They enable Turf Managers to make better informed decisions relating to irrigation, pest management and PGR applications.

There are upwards of 200 different sensor configurations available with this number being added to all the time.

- No cabling
- GSM or wifi options available.
- Wifi has a range of up to 70km.
- Solar powered
- User friendly proprietary software.
- Small size 400g weight.
- 3 year hardware warranty

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Clean Sweep Trio

Fungicide

Tri-Active Control Technology

*Multi-site protection delivering strong
Curative & Preventative Performance*

Effective ERI & Fairy Ring control

Product Overview

Clean Sweep Trio Fungicide is a unique fungicide formulation containing 119g/L Thiophanate-methyl, 37.5g/L Fluazinam and 36g/L Tebuconazole.

Clean Sweep Trio Fungicide is registered for the broad spectrum, curative and preventative control of ERI, Fairy Ring, Anthracnose, Brown Patch, Dollar Spot and *Helminthosporium* in all recreational turf management situations.

Clean Sweep Trio Fungicide is a Suspension Concentrate (SC) formulation.

Clean Sweep Trio Fungicide is formulated in Australia.

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indigo
SPECIALTY PRODUCTS

1. Summary

1.1. Background

With pesticide use and availability constantly in a state of flux we thought that this guide might be a useful reference for all Professional Turf Managers. We have split it into sections based on weeds, diseases and insect pests but also thought that with the increased use of pigments in the industry these were also worth including. So basically, it is an easy-to-use reference guide that covers all the registered active ingredients available to the Turf Manager. If we have left anything out, please feel free to contact us.

This reference guide is not intended as a substitute for the product label for the products referenced herein. Product labels for the above products contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide.

1.2 Reducing the Likelihood of Resistance occurring

Overuse of any one pesticide can lead to problems with resistance occurring and biodegradation. The previously discussed Chemical Groupings enable the end user to have the necessary information available at their fingertips to develop a successful management strategy aimed at reducing the likelihood of resistance. As a general rule, pesticides, which act at a single site, are more likely to have resistance develop if used continually. For this reason a general rule to rotate between chemical groups exists. If at all possible, you should not rotate between different products that are in the same chemical group.

Fungal control should be achieved using a combination of cultural and chemical means with the latter being adopted if cultural control fails. Do not apply more than two consecutive sprays of fungicides from the same activity group, unless mixed with a fungicide from a different activity group.

1.3 Key Factors aimed at reducing the development of resistance.

- Aim to limit selection pressure for the season, bearing in mind that spraying for one pest may directly influence other non-target pests.
- Aim to use a number of chemical families and not rely entirely on one.
- Rotate chemistries and/or modes of action
- Where possible utilise what are termed economical thresholds as a means of indicating when spraying should be carried out.
- Although commonly overlooked a healthy plant is better able to resist pest attack than one under stress whether that be for example drought or nutritional.
- Use all available tactics for management of a particular arthropod (insect or mite).

By trying as best you can to follow these general guidelines both the management of insect/mite pests and delaying the onset of chemical resistance can be achieved.

As with many things related to general health prevention is better than cure and this is certainly no exception when it comes to resistance management and program should be seen as just one part of a larger integrated pest management (IPM) approach.

There are three components to this approach: a) monitoring the population density of pests b) focusing on the actual numbers that result in economic injury occurring whereby the damage from the pest exceeds the cost of the chemical and application used to control it and c) trying to integrate a number of control strategies rather than simply relying on one alone.

2.0 Pests and diseases of turf

2.1 Weeds of turf

2.22 Common indicator weeds

Weed common name	Taxonomic name	Presence Indicates						
		Drought	Wet	Acid	Compaction	Low light	Low fertility	High Fertility
Bindii	<i>Tribulus terrestris/Solvia Sessilis/Solvia Pterosperma</i>							
Bindweed	<i>Fallopia convolvulus</i>				Yes			
Black medic	<i>Medicago lupulina</i>	Yes					Yes	
Capeweed	<i>Arctotheca calendula</i>							Yes
Chickweed – mouse ear	<i>Cerastium virgatum</i>		Yes		Yes	Yes		Yes
Chickweed -	<i>Stellaria media</i>		Yes		Yes	Yes		Yes
Chicory	<i>Cichorium intybus</i>				Yes			
corn speedwell	<i>Veronica arvensis</i>				Yes			
Creeping oxalis/wood sorrel	<i>Oxalis corniculata</i>	Yes					Low calcium	
Dandelion	<i>Taraxacum spp.</i>				Yes		Yes. Low Calcium	
Dock	<i>Rumex spp</i>		Yes					
Fat Hen	<i>Chenopodium Album</i>							Yes
Flat weed/Catsear	<i>Hypochoeris radicata</i>						Yes	
Knotweed	<i>Polygonum aviculare</i>	Yes		Yes	Yes			
Onion grass/Guildford Grass	<i>Romulea rosea</i>						Yes	
Oxalis								low calcium and high magnesium
Pigweed	<i>Amaranthus spp.</i>							Yes
Plantain	<i>Plantago spp</i>				Yes		Yes	
Purslane	<i>Portulaca oleracea</i>							Yes. High P
silver cinquefoil	<i>Potentilla argentea</i>			Yes				
Sorrel							Yes. Low Calcium	
Summergrass							Yes	
Thistles								Yes
White clover	<i>trifolium repens</i>	Yes			Yes		Yes	
Winter grass	<i>Poa annua</i>		Yes		Yes	Yes	Yes	
Yarrow	<i>Achillea millefolium</i>	Yes					Yes	
Yorkshire Fog	<i>Holcus lanatus</i>						Yes	

In areas where weeds have become a problem, the use of herbicides should be considered before conditions can be improved by the use of better management and cultural practices. This section is meant to be a guide to the herbicides available and how they work in order to enable more educated decisions to be made.

Herbicides may be taken into the plant and moved throughout the plant to site of action. For example, if a drop of paraquat were applied to the leaf tip of a young plant then only that leaf tip would be killed; however, if a drop of 2,4-D were applied to the leaf tip of a young tomato plant then other areas of the plant would express symptoms due to translocation of the 2,4-D throughout the plant.

For these herbicides to be effective, they must enter the plant. Entrance may be influenced by factors, such as the shape or orientation of the leaf, roughness of the leaf surface, pubescence on the leaves, presence of wax, or the formulation

of the herbicide. For example, it is difficult to obtain good coverage of plants with narrow upright leaves such as wild onion since the herbicide bounces or runs off, while plants with prostrate leaves such as wild radish are much easier to cover.

The presence of pubescence (hairs) on the leaf may result in a herbicide not reaching the leaf surface but remaining suspended on the hairs. In such cases, the addition of a surfactant may be useful in reducing the surface tension of the water droplet and allowing it to spread through the hairs onto the leaf surface where it may be absorbed.

On waxy leaf surfaces, the formulation of the herbicide may be important. For example, the amine formulations of phenoxy herbicides are not highly soluble in wax and are not as effective on plants with waxy leaves as the ester formulations, which are soluble in wax.

Contact herbicides are more effective on annual weeds but are not usually effective on perennials. Translocated herbicides may be effective on annuals or perennials.

2.23 Common Turf broadleaved weeds



Capeweed (*Arctotheca calendula*)



Carrotweed (*Cotula australis*)



Catsear (*Hypochaeris radicata*)



Chickweed (*Stellaria media*)



Cudweed (*Gnaphalium spp.*)



Dandelion (*Taraxacum officinale*)



Khakiweed (*Alternanthera pungens*)



Lambs tongue (*Plantago lanceolata*)



Lippia (*Phyla canescens*)



Mallow (*Malvaceae spp*)



Oxalis spp



White clover (*Trifolium repens*)

3.0 Australian Registered preemergent herbicides for turf, commercial and industrial areas and flower beds/pots.

Herbicides	Group	Annual grasses	Chickweed	Morning Glory	Oxalis	Spurge	Registered area of use			
							Turf	Hard Spaces	Flower beds	Pots
Dichlobenil	29	F	G	P	P	P		✓	✓	✓
Dithiopyr	3	G	G					✓		
500 g/L Indazaflam	29	G	G	G	G	G		✓		
200 g/L Indazaflam	29	G	G	G	G	G	✓			
Isoxaben	29		G	G	G	G		✓		
Metalochlor	15	G	G	G	G	G	✓			
Oryzalin	3	G	G	F	G	F	✓		✓	✓
Oxadiazon	14	G	P	F	G	F	✓			✓
Qoxyfluorfen and Oryzalin	14 and 3	G	G	F	G	F			✓	✓
dimethenamid and pendimethalin	15 and 3	G	G	F	G	F	✓		✓	✓
Pendimethalin	3	G	G	F	G	F	✓			
Prodiamine	3	E	E				✓		✓	✓
Pre and Post emergent Control										
Terbutylazine, Glyphosate, Amitrole, Oxyfluorfen	5 9 34 14	G	G	G	G	G		✓		

4.0 Registered Turf Herbicides

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-entry Period	Area of usage: Turf or Fencelines	Weeds & Comments
African Lovegrass <i>Eragrostis curvula</i>							
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Annual (Wimmera) Ryegrass <i>Lolium rigidum</i>							
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Oryzalin (Prolan)	3	2.4-4.0	Pre	S	NS	Couch/ kikuyu	Wintergrass, Annual ryegrass, Crabgrass, Chickweed. DO NOT use on newly seeded turf areas. DO NOT use on turf under stress. DO NOT use on Bent grass or Wintergrass. DO NOT use on golf greens or bowling greens. DO NOT apply if forecast heavy rain or storms are likely to cause runoff. DO NOT irrigate to the point of runoff. Allow at least 10 weeks between last application and overseeding/oversowing. Very toxic to aquatic life.
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115-0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Barley Grasses <i>Critesion spp.</i>							
Propyzamide (Revere/ Checkpoint)	3	0.6-1.2	Pre and Post	S	Dried	Common Couch, Qld Blue Couch, Buffalo	Apply during the Autumn and Winter, if established turf is infested with seedling Winter Grass. Ensure a uniform coverage. Irrigate immediately after application with 12- 25 mm irrigation or rain and again 24 hours later. Repeat treatment, if necessary, on Queensland Blue Couch after 4 weeks. DO NOT RESEED FOR 60 DAYS AFTER TREATMENT. Use ONLY on established turf. DO NOT use on Bluegrass, Ryegrass, Fescue or Bent Grass Lawns
Barnyard Grasses including <i>Echinochloa crus-galli</i>							
Dithiopyr (Dimension)	3	1.75 - 3.5	Pre and Post	S	Dried	Bahia grass, Kentucky bluegrass, Buffalo grass, Carpet grass, Centipede grass, Couch	Crabgrass, Summer grass, Barnyard grass, Chickweed, Crowsfoot Grass. DO NOT use on newly seeded, sodded, or sprigged turf that is not well-established. DO NOT use on turf weakened by weather conditions or by physical damage due to intensive use or cultural practices (such as scarification, coring, aeration top dressing). DO NOT use on Bent grasses. DO NOT use on golf greens or bowling greens. Irrigation or rainfall within 7 days after application may enhance performance by promoting weed germination. Over-seeding, re-seeding or sprigging of treated areas within 3 months

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							(6 months if 3.5 L/ha is used) after application may inhibit the establishment of desirable turfgrasses. Where no irrigation of treated turf has occurred, over-seeding should be delayed for 12 months.
DSMA + MCPA (Trinoc)	0.4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Prodiamine (Barricade/Spartan)	3	1 - 4	Pre	S	Dried	Established turf Bahia Grass, Buffalo Grass, Carpet Grass, Common Couch, Hybrid couch, Kikuyu, Qld Blue Couch, Seashore Paspalum, Zoysia	Barnyard Grass, Parramatta Grass, Rat's Tail Fescue, Summer Grass. DO NOT plant seeds in treated soil for 6 months after application.
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Bindii / Bogan Flea <i>Calotis hispidula</i>							
Bromoxynil (Bronco)	6	3.0	Post	S	Dried	Couch (including Queensland Blue), Buffalo, Bent, Paspalum, Kikuyu, Fescue, and Rye lawns	Bindii, Jo-Jo (Onehunga), Cudweed
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6.4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	Catsear, Cudweeds, Pennyworth, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoli, Yarrow, Bindii, Jo-Jo (Onehunga). DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover. Spray when weeds are young and actively

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							growing. DO NOT apply if rainfall is likely within 6 hours of application
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Florasulam + Fluroxypyr (Crest)	2 4	2.0	Post	S	Dried	Turf	White clover, Bindii, Bathurst Burr, Noogoora Burr, Marshmallow or Smallflower Mallow, Pigweed, Sowthistle. Transient discolouration may occur in turf situations when the high rate (2 L/ha) of CREST® has been used up to 21 days following treatment. This product is not recommended to be used in Creeping bentgrass golf or bowling green situations. Very toxic to aquatic life.
Ioxabenz + Florasulam (Turfzine Pro)	29 2	0.75 - 1.0	Pre and Post	S	Dried	Common couch, kikuyu, zoysia, QLD Blue, Buffallo, Perennial ryegrass, Tall fescue and creeping bentgrass	White clover and Bindii. Very toxic to aquatic life
Caltrop Arctotheca calendula							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
MCPA 750 (MCPA 750)	4	1 - 1.9	Post	S	NS	Turf	Ball mustard, Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Catsear, Carrot weed, Charlock, Dandelion, Docks, Fat Hen, Fennel, Fumitory, Mustards, Paterson's Curse, Plantains, Shepherd's Purse, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. Newly laid: Delay until well established or at least two months old. Established: Apply in high volume to actively growing weeds. DO NOT mow for 2 days before application. Some transitory damage may occur to fine turf grasses and strawberry clover. See "Legume Tolerance". Buffalo grass is more easily damaged than other grasses

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Capeweed <i>Arctotheca calendula</i>							
2,4-D (2,4-D Amine 625)							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
Bromoxynil + Dicamba + MCPA (Fairway/Broadside/Triple Time)	6 4	4-5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Bromoxynil + MCPA (Bronco MA)	6 4	6.0	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Capeweed, Catsear, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Jo-Jo. DO NOT mow turf for 2 days after treatment
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead/Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	Catsear, Cudweeds, Pennyworth, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoli, Yarrow, Bindii, Jo-Jo (Onehunga). DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover. Spray when weeds are young and actively growing. DO NOT apply if rainfall is likely within 6 hours of application
Dicamba + MCPA (Ravage/Contra M/Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
MCPA 750 (MCPA 750)	4	1 - 1.9	Post	S	NS	Turf at least 2 months old	Ball Mustard, Bathurst Burr, Black Bindweed, California Burr, Cape Tulip, Capeweed, Carrot Weed, Charlock, Cutleaf Mignonette, Dandelion, Dead Nettle, Docks, Fat Hen, Fennel, Field Bindweed. Delay until well established or at least 2 months old. Established: Apply in high volume to actively growing weeds. DO NOT mow for 2 days before application. Some transitory damage may occur to fine turf grasses and strawberry clover. See "Legume Tolerance". Buffalo grass is more easily damaged than other grasses.
Carrot Weed <i>Daucus carota</i>							
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Catsears / Flatweeds <i>Hypochaeris spp.</i> including - Flatweed <i>Hypochaeris radicata</i>							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene lawns.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	
Bromoxynil + MCPA (Bronco MA)	6 4	6.0	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Capeweed, Catsear, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Jo-Jo. DO NOT mow turf for 2 days after treatment
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead /Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 -1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalis, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, WIreweed, Pennywort, White Clover. DO NOT use on Buffalo
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen,

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Caustic Weed / Creeper							
Euphorbia							
- Caustic Weed							
<i>Chamaesyce drummondii</i>							
- Climbing Caustic							
<i>Euphorbia sarcostemmoides</i>							
Rimsulfuron + Metsulfuron (Negate)	2	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia, Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Chickweed							
<i>Stellaria media</i>							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (<i>Paspalum notatum</i>) lawns.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppergrass, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.

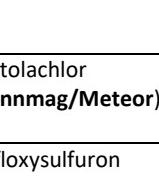
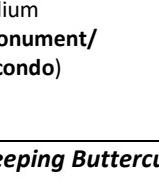
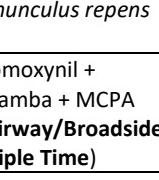
WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Dithiopyr (Dimension)	3	1.75 - 3.5	Pre and Post	S	Dried	Bahia grass, Kentucky bluegrass, Buffalo grass, Carpet grass, Centipede grass, Couch	Crabgrass, Summer grass, Barnyard grass, Chickweed, Crowsfoot Grass. DO NOT use on newly seeded, sodded, or sprigged turf that is not well-established. DO NOT use on turf weakened by weather conditions or by physical damage due to intensive use or cultural practices (such as scarification, coring, aeration top dressing). DO NOT use on Bent grasses. DO NOT use on golf greens or bowling greens. Irrigation or rainfall within 7 days after application may enhance performance by promoting weed germination. Over-seeding, re-seeding or sprigging of treated areas within 3 months (6 months if 3.5 L/ha is used) after application may inhibit the establishment of desirable turfgrasses. Where no irrigation of treated turf has occurred, over-seeding should be delayed for 12 months.
Dithiopyr (Dithiomax 19-0-5)	3	250	Pre and Post	S	NS	Bahia grass) Buffalo grass Carpet grass Centipede grass Chewings Fescue Green Couch* Kentucky Bluegrass Kikuyu (Pennisetum clandestinum) Perennial Ryegrass Queensland Blue Couch Sweet Smother (Durban grass) Tall Fescue Zoysia (Zoysia spp.) * Includes common and hybrid cultivars	Crabgrass, Summer grass, Winter grass, Barnyard grass, Chickweed, Crowsfoot grass.
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarle Pimpernel, Summergrass, Water

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Oryzalin (Prolan)	3	2.4 - 4.0	Pre	S	NS	Couch/ kikuyu	Wintergrass, Annual ryegrass, Crabgrass, Chickweed. DO NOT use on newly seeded turf areas. DO NOT use on turf under stress. DO NOT use on Bent grass or Wintergrass. DO NOT use on golf greens or bowling greens. DO NOT apply if forecast heavy rain or storms are likely to cause runoff. DO NOT irrigate to the point of runoff. Allow at least 10 weeks between last application and overseeding/oversowing. Very toxic to aquatic life.
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Trifloxyulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Clovers							
<i>Trifolium</i> spp. Including - White Clover <i>Trifolium repens</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene lawns.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Rye Lawns	
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead /Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Ioxabenz + Florasulam (Turfzine Pro)	29 2	0.75 - 1.0	Pre and Post	S	Dried	Common couch, kikuyu, zoysia, QLD Blue, Buffallo, Perennial ryegrass, Tall fescue and creeping bentgrass	White clover and Bindii. Very toxic to aquatic life
Quinclorac (Drive XL)	4	4.6	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications , 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions.
Quinclorac (Quinstar)	4	4.1	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications , 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions.
Quinclorac (Steer 750)	4	1.1	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications , 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions.
Rimsulfuron + Metsulfuron (Negate)	2	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia,Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Trifloxysulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Cobbler's Pegs <i>Bidens pilosa</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
2,4-D + dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Rimsulfuron + Metsulfuron (Negate)	2	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia, Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Cotulas including - Common Cotula / Carrot Weed <i>Cotula australis</i> - Funnelweed <i>Cotula turbinata</i>							
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppergrass, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wlreweed, Pennywort, White Clover. DO NOT use on Buffalo
							
DSMA + MCPA (Trinoc)	0 4	30 -60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
							
MCPA 750 (MCPA 750)	4	1 - 1.9	Post	S	NS	Turf at least 2 months old	Ball Mustard, Bathurst Burr, Black Bindweed, California Burr, Cape Tulip, Capeweed, Carrot Weed, Charlock, Cutleaf Mignonette, Dandelion, Dead Nettle, Docks, Fat Hen, Fennel, Field Bindweed. Delay until well established or at least 2 months old. Established: Apply in high volume to actively growing weeds. DO NOT mow for 2 days before application. Some transitory damage may occur to fine turf grasses and strawberry clover. See "Legume Tolerance". Buffalo grass is more easily damaged than other grasses.
							
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
							
Trifloxysulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
							
Creeping Buttercup <i>Ranunculus repens</i>							
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue),	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood
							

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Crowsfoot Grass <i>Eleusine indica</i>							
Diclofop-methyl (Crowbar/ Destro)	1	1.0 1 - 1.5 1 - 2.5	Post	S	Dried	Turf: kikuyu, hybrid couch cv. Tifdwarf Queensland blue couch Common couch, buffalo, hybrid couch cv. Tifway, carpet grass, salt couch	Incorporate as soon as possible, by 10-15 mm of spray irrigation or when rainfall is expected, within one day of application. Apply once every 10 weeks from early September to the end of February
Dithiopyr (Dimension)	3	1.75 - 3.5	Pre and Post	S	Dried	Bahia grass, Kentucky bluegrass, Buffalo grass, Carpet grass, Centipede grass, Couch	Crabgrass, Summer grass, Barnyard grass, Chickweed, Crowsfoot Grass. DO NOT use on newly seeded, sodded, or sprigged turf that is not well-established. DO NOT use on turf weakened by weather conditions or by physical damage due to intensive use or cultural practices (such as scarification, coring, aeration top dressing). DO NOT use on Bent grasses. DO NOT use on golf greens or bowling greens. Irrigation or rainfall within 7 days after application may enhance performance by promoting weed germination. Over-seeding, re-seeding or sprigging of treated areas within 3 months (6 months if 3.5 L/ha is used) after application may inhibit the establishment of desirable turfgrasses. Where no irrigation of treated turf has occurred, over-seeding should be delayed for 12 months.
Dithiopyr (Dithiomax 19-0-5)	3	250	Pre and Post	S	NS	Bahia grass Buffalo grass Carpet grass Centipede grass Chewings Fescue Green Couch* Kentucky Bluegrass Kikuyu (Pennisetum clandestinum) Perennial Ryegrass Queensland Blue Couch Sweet Smother (Durban grass)	Crabgrass, Summer grass, Winter grass, Barnyard grass, Chickweed, Crowsfoot grass.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Tall Fescue Zoysia (Zoysia spp.) * Includes common and hybrid cultivars	
Foramsulfuron (Tribute)	2	1.5 - 2	Post	S	Dried	Turf - ONLY Couchgrass (common & hybrid Couchgrass) & Zoysia grass	Winter Grass, Ryegrass, Crowsfoot Grass, Goose Grass, Paspalum, Kikuyu (suppression ONLY) DO NOT apply to Queensland Blue Couch. DO NOT apply within two weeks of couchgrass sprigging. DO NOT apply within one week prior to overseeding couchgrass with a cool season grass such as ryegrass, as some temporary stunting may occur for up to two weeks. Avoid mowing during the three to four days preceding or following treatment.
Indaziflam (Specticle)	29	0.25	Pre	S	Dried	Bahia grass, Buffalo grass, Common couch, Queensland Blue Couch, kikuyu, zoysia	Summer grass or Crab grass, Crowsfoot grass, Winter grass. DO NOT apply Specticle on uphill slopes and adjacent to greens overseeded with cool season grasses. DO NOT apply Specticle to annual and perennial ryegrass or to couchgrass overseeded with ryegrass. The minimum interval between application of Specticle and seeding or overseeding is 12 months. DO NOT use on golf greens, tees or collars. Very toxic to aquatic life.
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Metribuzin (Metric)	5	1.0	Post	S	Dried	Couch	Permit for use in all turfed areas of Bermuda grass & hybrid Winter Green couch on golf courses & turf production areas situated at the SEP Mercure Capricorn Resort, Farnborough Road, Yeppoon QLD for the control of Crowsfoot grass (<i>Eleusine indica</i> & <i>E. tristachya</i>). DO NOT apply where Winter Grass, Ryegrass, Crabgrass or Bent grasses are desired species. DO NOT use on golf or bowling greens.
Pendimethalin (Pendant)	3	4.5	Pre	S	12 Hours	Turf - Warm season species: Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, and Zoysia grass turf.	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application. Dangerous to fish and other aquatic life.
		3.0				Qld Blue couch, Hybrid couch c.v. Tifdwarf; Turf cool season species	
		4.5				Kentucky Blue grass	
		3.0				Perennial, Ryegrass, Bent grass	
Pendimethalin (Battalia)	3	3.4	Pre	S	12 Hours	Turf - Warm season species: Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, and Zoysia grass turf.	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application. Dangerous to fish and other aquatic life.
		2.3				Qld Blue couch, Hybrid couch c.v. Tifdwarf; Turf cool season species.	
		3.4				Kentucky Blue grass	

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
		2.3				Perennial, Ryegrass, Bent grass	
Pendimethalin (Pendi-Pro 22-0-5)	3	220 - 260	Pre	S	NS	Turf - Warm season species: Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, Zoysia grass turf, Kentucky bluegrass	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application. Toxic to aquatic organisms including fish. Delay reseeding treated areas for 4 months and sprigging by 5 months after application and then cultivate the soil to dilute any remaining chemical residue. On newly planted areas wait until the grass has been mowed four times and has filled in before using.
		160 - 220				Qld Blue couch, Hybrid couch c.v. Tifdwarf; Turf cool season species: Perennial, Ryegrass, Bent grass	
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Oxadiazon (Oxamax/Echelon/Ronstar)	14	300 - 400	Pre	S	NS	For use on warm season turf grass areas, including fairways, golf tees, municipal sports fields, industrial & commercial lawns.	Control of Summer Grass, Crowsfoot, Winter Grass, Creeping Oxalis, DO NOT mow treated area until product has been watered in and turf foliage has dried. Avoid application when daytime temperatures are consistently above 32°C. This product is not recommended for use on putting greens. DO NOT apply on turf containing Carpet Grass and Dichondra unless some damage is acceptable. DO NOT use on Santa anna couch.
Cudweeds <i>Gnaphalium spp.</i> including - Cudweed <i>Gnaphalium pennsylvanicum</i>							
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (<i>Paspalum notatum</i>) lawns.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Bromoxynil + Dicamba + MCPA (Fairway/Broadside/Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue),	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	
Carfentrazone-ethyl + MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead /Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time) 	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Iodosulfuron-methyl (Destiny/Duke) 	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dandelions <i>Taraxacum spp.</i> including - Dandelion <i>Taraxacum officinale</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (<i>Paspalum notatum</i>) lawns.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside/Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
MCPA 750 (MCPA 750)	4	1 - 1.9	Post	S	NS	Turf at least 2 months old	Ball Mustard, Bathurst Burr, Black Bindweed, California Burr, Cape Tulip, Capeweed, Carrot Weed, Charlock, Cutleaf Mignonette, Dandelion, Dead Nettle, Docks, Fat Hen, Fennel, Field Bindweed. Delay until well established or at least 2 months old. Established: Apply in high volume to actively growing weeds. DO NOT mow for 2 days before application. Some transitory damage may occur to fine turf grasses and strawberry clover. See "Legume Tolerance". Buffalo grass is more easily damaged than other grasses.
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Docks Rumex spp.							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (Paspalum notatum) lawns.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-entry Period	Area of usage: Turf or Fencelines	Weeds & Comments
Carfentrazone-ethyl + MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time) 	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
MCPA 750 (MCPA 750)	4	1 - 1.9	Post	S	NS	Turf at least 2 months old	Ball Mustard, Bathurst Burr, Black Bindweed, California Burr, Cape Tulip, Capeweed, Carrot Weed, Charlock, Cutleaf Mignonette, Dandelion, Dead Nettle, Docks, Fat Hen, Fennel, Field Bindweed. Delay until well established or at least 2 months old. Established: Apply in high volume to actively growing weeds. DO NOT mow for 2 days before application. Some transitory damage may occur to fine turf grasses and strawberry clover. See "Legume Tolerance". Buffalo grass is more easily damaged than other grasses.
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Duckweeds Lemna spp.							
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Fat Hen (White Goosefoot) <i>Chenopodium album</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
2,4-D + dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Carfentrazone-ethyl + MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
MCPA 750 (MCPA 750)	4	1 - 1.9	Post	S	NS	Turf at least 2 months old	Ball Mustard, Bathurst Burr, Black Bindweed, California Burr, Cape Tulip, Capeweed, Carrot Weed, Charlock, Cutleaf Mignonette, Dandelion, Dead Nettle, Docks, Fat Hen, Fennel, Field Bindweed. Delay until well established or at least 2 months old. Established: Apply in high volume to actively growing weeds. DO NOT mow for 2 days before application. Some transitory damage may occur to fine turf grasses and strawberry clover. See "Legume Tolerance". Buffalo grass is more easily damaged than other grasses.
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							DO NOT apply to newly seeded turf areas.
Fleabanes <i>Conyza</i> spp. including <i>Conyza bonariensis</i>							
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (<i>Paspalum notatum</i>) lawns.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside/Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + Prosulfuron (CASPER)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass,

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Fumitories							
Fumaria spp.							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time) 	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Goose Grass							
<i>Eleusine tristachya</i>							
Foramsulfuron (Tribute)	B	1.5 - 2	Post	S	Dried	Turf - ONLY Couchgrass (common & hybrid Couchgrass) & Zoysia grass	Winter Grass, Ryegrass, Crowsfoot Grass, Goose Grass, Paspalum, Kikuyu (suppression ONLY) DO NOT apply to Queensland Blue Couch. DO NOT apply within two weeks of couchgrass sprigging. DO NOT apply within one week prior to overseeding couchgrass with a cool season grass such as ryegrass, as some temporary stunting may occur for up to two weeks. Avoid mowing during the three to four days preceding or following treatment.
Diclofop-methyl (Crowbar/Destro)	1	1.0	Post	S	NS	Summer Grass (Digitaria anguinalis), Crowsfoot (Crab Grass) (Eleusine)	Incorporate as soon as possible, by 10-15 mm of spray irrigation or when rainfall is expected, within one day of application. Apply once every 10 weeks from early September to the end of February

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						indica), Winter Grass (Poa annua)	
Jo-Jo Weeds / Bindyi / Bindii							
Soliva spp. including Soliva sessilis							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (Paspalum notatum) lawns.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead /Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Contra M/ Cutlass M/ Double Time)							(Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Rimsulfuron + Metsulfuron (Negate)	2	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia, Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Trifloxyulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
<i>Khaki Weed</i>							
<i>Alternanthera pungens</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
<i>Kikuyu</i>							
<i>Pennisetum clandestinum</i>							
Foramsulfuron (Tribute)	2	1.5 – 2.0	Post	S	Dried	Turf - ONLY Couchgrass (common & hybrid)	Winter Grass, Ryegrass, Crowsfoot Grass, Goose Grass, Paspalum, Kikuyu (suppression ONLY) DO NOT apply to Queensland Blue Couch. DO NOT apply within two weeks of couchgrass sprigging. DO NOT apply within one week prior to

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-tiny Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Couchgrass) & Zoysia grass	overseeding couchgrass with a cool season grass such as ryegrass, as some temporary stunting may occur for up to two weeks. Avoid mowing during the three to four days preceding or following treatment.
Quinclorac (Drive XL)	4	4.6	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications , 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions.
Quinclorac (Quinstar)	4	4.1	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications , 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions.
Quinclorac (Steer 750)	4	1.1	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications , 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions.
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Mallows/Marshmallow <i>Malva spp.</i> including: - Red-flowered Mallow <i>Modiola caroliniana</i>							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Carfentrazone-ethyl (Smackdown)	14	0.025 - 0.075	Post	S	NS	Common Couch, Hybrid Couch, Kikuyu, Buffalo, Qld Blue Couch	Marshmallow & Annual (Stinging) Nettles. Dangerous to fish and other aquatic life.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Florasulam + Fluroxypyr (Crest)	2 4	2.0	Post	S	Dried	Turf	White clover, Bindii, Bathurst Burr, Noogoora Burr, Marshmallow or Smallflower Mallow, Pigweed, Sowthistle. Transient discolouration may occur in turf situations when the high rate (2 L/ha) of CREST® has been used up to 21 days following treatment. This product is not recommended to be used in Creeping bentgrass golf or bowling green situations. Very toxic to aquatic life.
Medics							
Medicago spp. including - Burr Medic Medicago polymorpha							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Moss and algae (various)							
Benzalkonium chloride (Surrender)	-	25.0	Post	S	NS	Bentgrass, buffalo, couch, fescues and ryegrass lawns	algae, lichen, liverwort and moss. Do not apply if shade conditiots are near or over 30°C or soil is dry and plants suffering from moisture stress.
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Dichlorophen (Kendocide)	-	0.05/5 L water	Post	S	NS	Synthetic courts, pavements & lawns & pots / Post emergent	Liverwort, moss & algae in lawns. Dangerous to fish.
Quaternary ammonium (Algaefix)	-	1L/100 L	Post	S	NS		
Mouse-eared Chickweed <i>Cerastium spp., Cerastium glomeratum</i>							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
DSMA + MCPA (Trinoc)	0.4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Nutgrasses / Sedges							
Cyperus spp. including - <i>Kyllinga</i> Weed <i>Cyperus sphaeroideus</i> - <i>Mullumbimby</i> Couch <i>Cyperus brevifolius</i> - Nutgrass <i>Cyperus rotundus</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6.4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (Paspalum notatum) lawns.
DSMA (DSMA Clear)	0	25 - 66	Post	S	NS	Common Couch, Bent & Fescue, Buffalo	Paspalum, Summergrass, Mullumbimby Couch, Sedges, Crab Grass, Nut Grass. DO NOT use product on Queensland Blue Couch, Carpet, Kikuyu or Centipede grasses as severe injury may result. Some injury may occur if applied when air temperatures exceed 30°C
DSMA + MCPA (Trinoc)	0.4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Halosulfuron-methyl (Halo/Prosedge/Sedgehammer)	2	0.065 - 0.13	Post	S	NS	Established turf as named: Bent Grass, Buffalo Grass, Carpet Grass, Couch, ^{SEP} Couch	Mullumbimby Couch, Nutgrass.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Hybrid, Durban Grass, Kikuyu Grass, Perennial Ryegrass, Queensland Blue Couch, Tall Fescue / emergent	
Trifloxysulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Onion / Guildford Grass <i>Romulea rosea</i>							
	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Rimsulfuron + Metsulfuron (Negate)	2	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia, Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Onion Weed <i>Nothoscordum borbonicum</i>							
	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Oxalis / Sorrel <i>Oxalis spp.</i> including - Yellow Wood Sorrel / Creeping Oxalis <i>Oxalis corniculata</i>							
2,4-D + dicamba + Mecoprop (Methar Tri Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene (<i>Paspalum notatum</i>) lawns.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead /Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time) 	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Oxadiazon (Oxamax/Echelon/Ronstar)	14	300 - 400	Pre	S	NS	For use on warm season turf grass areas, including fairways, golf tees, municipal sports fields, industrial & commercial lawns.	Control of Summer Grass, Crowsfoot, Winter Grass, Creeping Oxalis, DO NOT mow treated area until product has been watered in and turf foliage has dried. Avoid application when daytime temperatures are consistently above 32°C. This product is not recommended for use on putting greens. DO NOT apply on turf containing Carpet Grass and Dichondra unless some damage is acceptable. DO NOT use on Santa Anna couch.
Rimsulfuron + Metsulfuron (Negate)	B	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia, Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Trifloxsulfuron sodium (Monument/Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Parramatta grasses <i>Sporobolus</i> spp. including <i>Sporobolus Africana</i>							
Prodiamine (Barricade/Spartan)	3	1 - 4.0	Pre	S	Dried	Established turf Bahia Grass, Buffalo Grass, Carpet Grass, Common Couch, Hybrid couch, Kikuyu, Qld Blue Couch, Seashore Paspalum, Zoysia	Barnyard Grass, Parramatta Grass, Rat's Tail Fescue, Summer Grass. DO NOT plant seeds in treated soil for 6 months after application.
Paspalum <i>Paspalum</i> spp. including - Bahia Grass <i>Paspalum notatum</i> - Paspalum <i>Paspalum dilatatum</i> - Saltwater Couch <i>Paspalum vaginatum</i> - Water Couch <i>Paspalum distichum</i>							
DSMA (DSMA Clear)	0	25 - 66	Post	S	NS	Common Couch, Bent & Fescue, Buffalo	Paspalum, Summergrass, Mullumbimby Couch, Sedges, Crab Grass, Nut Grass. DO NOT use product on Queensland Blue Couch, Carpet, Kikuyu or Centipede grasses as severe injury may result. Some injury may occur if applied when air temperatures exceed 30°C
DSMA + MCPA (Trinoc)	0.4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass,

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Foramsulfuron (Tribute)	2	1.5 – 2.0	Post	S	Dried	Turf - ONLY Couchgrass (common & hybrid Couchgrass) & Zoysia grass	Winter Grass, Ryegrass, Crowsfoot Grass, Goose Grass, Paspalum, Kikuyu (suppression ONLY) DO NOT apply to Queensland Blue Couch. DO NOT apply within two weeks of couchgrass sprigging. DO NOT apply within one week prior to overseeding couchgrass with a cool season grass such as ryegrass, as some temporary stunting may occur for up to two weeks. Avoid mowing during the three to four days preceding or following treatment.
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
MSMA (Daconate/Gauntlet/Monopoly)	0	6.6	Post	S	NS	Turf Couch and Hybrids of Couch only (Cynodon spp.)	Crab Grass/ Summergrass and Paspalum. DO NOT apply to Bent, Qld Blue Couch (Digitaria spp), Fescue, Blue Grass, Kikuyu or Dichandra lawns or turf as severe damage or death to the turf can occur. DO NOT mow for 4 days before or after application and DO NOT water for at least 2 days after application
Trifloxyisulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Pearlworts <i>Sagina</i> spp.							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
							
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Pennyworts <i>Hydrocotyle</i> spp. including - Pennywort <i>Hydrocotyle tripartite</i>							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
							
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Peppercresses <i>Lepidium</i> spp.							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Cutlass M/ Double Time)							Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Perennial Ryegrass <i>Lolium perenne</i>							
Foramsulfuron (Tribute)	2	1.5 - 2	Post	S	Dried	Turf - ONLY Couchgrass (common & hybrid Couchgrass) & Zoysia grass	Winter Grass, Ryegrass, Crowsfoot Grass, Goose Grass, Paspalum, Kikuyu (suppression ONLY) DO NOT apply to Queensland Blue Couch. DO NOT apply within two weeks of couchgrass sprigging. DO NOT apply within one week prior to overseeding couchgrass with a cool season grass such as ryegrass, as some temporary stunting may occur for up to two weeks. Avoid mowing during the three to four days preceding or following treatment.
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Rimsulfuron (Coliseum)	2	0.075 - 0.1	Post	S	Dried	Common Couch, Hybrid Couch	Wintergrass and ryegrass. DO NOT mow for 1 to 2 days prior to and following application. Allow at least 10 days between the last application and over-seeding with cool season grasses for winter cover.
Rimsulfuron + Metsulfuron (Negate)	2	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia,Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Pigeon Grass <i>Setaria spp.</i>							
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Plantains / Lambs Tongue <i>Plantago spp.</i> including - Ribwort (Common Plantain) <i>Plantago lanceolata</i>							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene lawns.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment.
Carfentrazone-ethyl +MCPA (Silverado)	14 4	1.0	Post	S	Dried	For Golf & Bowling Greens & Turf Farms, containing: Bentgrass, Common couch, Hybrid couch, Fine & Red Fescues, Buffalo, Winter Grass	Moss & Broadleaf weeds: Carrot weed, Clover, Cudweed, Dandelion, Docks, Fat Hen, Flatweed / Catsear, Pearlwort, Plantains. DO NOT use this product in the home garden.
Clopyralid + Diflufenican + MCPA (Javelin/Spearhead /Warhead/Jolt)	12 4	5.0	Post	S	Dried	Turf	Broadleaf weeds including: White Clover, Plantain, Capeweed, Cat's Ear, Bin-dii (Jo-Jo, Onehunga), Cudweed, Creeping Oxalis.
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leafed Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.



WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
DSMA + MCPA (Trinoc)	0 4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Rimsulfuron + Metsulfuron (Negate)	B	0.11	Post	S	Dried	Common Couch, Hybrid Couch, Zoysia, Qld Blue Couch	Wintergrass, ryegrass, onion grass, bindii, caustic weed, white clover, cobblers peg, creeping indigo, creeping oxalis, plantain, tridax daisy. Rainfast in 4 hours. Very toxic to aquatic life
Praire Grass / Bromegrass <i>Bromus spp.</i>							
Propyzamide (Revere/ Checkpoint)	3	0.6 - 1.2	Pre and Post		25	Common Couch, Qld Blue Couch, Buffalo	Apply during the Autumn and Winter, if established turf is infested with seedling Winter Grass. Ensure a uniform coverage. Irrigate immediately after application with 12- 25 mm irrigation or rain and again 24 hours later. Repeat treatment, if necessary, on Queensland Blue Couch after 4 weeks. DO NOT RESEED FOR 60 DAYS AFTER TREATMENT. Use ONLY on established turf. DO NOT use on Bluegrass, Ryegrass, Fescue or Bent Grass Lawns
Purpletop <i>Verbena bonariensis</i>							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Rat's Tail Fescue / Silver Grass							
Vulpia spp. including <i>Vulpia myuros</i>							
Prodiamine (Barricade/Spartan)	3	1 - 4.0	Pre	S	Dried	Established turf Bahia Grass, Buffalo Grass, Carpet Grass, Common Couch, Hybrid couch, Kikuyu, Qld Blue Couch, Seashore Paspalum, Zoysia	Barnyard Grass, Parramatta Grass, Rat's Tail Fescue, Summer Grass. DO NOT plant seeds in treated soil for 6 months after application.
Propyzamide (Revere/ Checkpoint) 	3	0.6 - 1.2	Pre and Post		NS	Common Couch, Qld Blue Couch, Buffalo	Apply during the Autumn and Winter, if established turf is infested with seedling Winter Grass. Ensure a uniform coverage. Irrigate immediately after application with 12- 25 mm irrigation or rain and again 24 hours later. Repeat treatment if necessary on Queensland Blue Couch after 4 weeks. DO NOT RESEED FOR 60 DAYS AFTER TREATMENT. Use ONLY on established turf. DO NOT use on Bluegrass, Ryegrass, Fescue or Bent Grass Lawns
Scarlet Pimpernel							
<i>Anagallis arvensis</i>							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time) 	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
DSMA + MCPA (Trinoc)	0.4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application
Sorrel							
<i>Acetosella vulgaris</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed,

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Spiny Emex / Doublegee							
<i>Emex australis</i>							
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.
Stagger Weed							
<i>Stachys arvensis</i>							
2,4-D + Dicamba + Mecoprop (Methar Tri-Kombi)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leafed Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (Sportsground)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow,

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Summer grasses							
Digitaria spp. including - Summer Grass							
Digitaria ciliaris - Crab Grass (Summer Grass)							
Digitaria sanguinalis							
Dithiopyr (Dimension)	3	1.75 - 3.5	Pre and Post	S	Dried	Bahia grass, Kentucky bluegrass, Buffalo grass, Carpet grass, Centipede grass, Couch	Crabgrass, Summer grass, Barnyard grass, Chickweed, Crowsfoot Grass. DO NOT use on newly seeded, sodded, or sprigged turf that is not well-established. DO NOT use on turf weakened by weather conditions or by physical damage due to intensive use or cultural practices (such as scarification, coring, aeration top dressing). DO NOT use on Bent grasses. DO NOT use on golf greens or bowling greens. Irrigation or rainfall within 7 days after application may enhance performance by promoting weed germination. Over-seeding, re-seeding or sprigging of treated areas within 3 months (6 months if 3.5 L/ha is used) after application may inhibit the establishment of desirable turfgrasses. Where no irrigation of treated turf has occurred, over-seeding should be delayed for 12 months.
Dithiopyr (Dithiomax 19-0-5)	3	250	Pre and Post	S	NS	Bahia grass) Buffalo grass Carpet grass Centipede grass Chewings Fescue Green Couch* Kentucky Bluegrass Kikuyu (Pennisetum clandestinum) Perennial Ryegrass Queensland Blue Couch Sweet Smother (Durban grass) Tall Fescue Zoysia (Zoysia spp.) * Includes common and hybrid cultivars	Crabgrass, Summer grass, Winter grass, Barnyard grass, Chickweed, Crowsfoot grass.
DSMA (DSMA Clear)	0	25 - 66	Post	S	NS	Common Couch, Bent & Fescue, Buffalo	Paspalum, Summergrass, Mullumbimby Couch, Sedges, Crab Grass, Nut Grass. DO NOT use product on Queensland Blue Couch, Carpet, Kikuyu or Centipede grasses as severe injury may result. Some injury may occur if applied when air temperatures exceed 30°C
DSMA + MCPA (Trinoc)	0.4	30 - 60	Post	S	NS	Couch, bent, fescue	Barnyard Grass, Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Cudweed, Dandelion, Duckweed, Fleabane, Lamb's Tongue, Mouse-eared Chickweed, Mullumbimby Couch, Nutgrass, Paspalum, Scarlet Pimpernel, Summergrass, Water Couchgreen, White Clover. DO NOT use on Buffalo, Kikuyu, Queensland Blue Couch, Carpet or Centipede Grass. Toxic to fish. DO NOT mow turf for 3 days before or after treatment and do not fertilise within 10 days of spraying. DO NOT spray if rain is likely within four hours after application

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Indaziflam (Specticle)	29	0.25	Pre	S	Dried	Bahia grass, Buffalo grass, Common couch, Queensland Blue Couch, kikuyu, zoysia	Summer grass or Crab grass, Crowsfoot grass, Winter grass. DO NOT apply Specticle on uphill slopes and adjacent to greens overseeded with cool season grasses. DO NOT apply Specticle to annual and perennial ryegrass or to couchgrass overseeded with ryegrass. The minimum interval between application of Specticle and seeding or overseeding is 12 months. DO NOT use on golf greens, tees or collars. Very toxic to aquatic life.
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
MSMA (Daconate/Gauntlet/Monopoly)	0	6.6	Post	S	NS	Turf Couch and Hybrids of Couch only (Cynodon spp.)	Crab Grass/ Summergrass and Paspalum. DO NOT apply to Bent, Qld Blue Couch (Digitaria spp), Fescue, Blue Grass, Kikuyu or Dichandra lawns or turf as severe damage or death to the turf can occur. DO NOT mow for 4 days before or after application and DO NOT water for at least 2 days after application
Oryzalin (Prolan)	3	2.4 - 4.0	Pre	S	NS	Couch/ kikuyu	Wintergrass, Annual ryegrass, Crabgrass, Chickweed. DO NOT use on newly seeded turf areas. DO NOT use on turf under stress. DO NOT use on Bent grass or Wintergrass. DO NOT use on golf greens or bowling greens. DO NOT apply if forecast heavy rain or storms are likely to cause runoff. DO NOT irrigate to the point of runoff. Allow at least 10 weeks between last application and overseeding/oversowing. Very toxic to aquatic life.
Oxadiazon (Oxamax/Echelon/Ronstar)	14	300 - 400	Pre	S	NS	For use on warm season turf grass areas, including fairways, golf tees, municipal sports fields, industrial & commercial lawns.	Control of Summer Grass, Crowsfoot, Winter Grass, Creeping Oxalis, DO NOT mow treated area until product has been watered in and turf foliage has dried. Avoid application when daytime temperatures are consistently above 32°C. This product is not recommended for use on putting greens. DO NOT apply on turf containing Carpet Grass and Dichondra unless some damage is acceptable. DO NOT use on Santa anna couch.
Pendimethalin (Pendant)	3	4.5	Pre	S	12 Hours	Turf - Warm season species: Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, and Zoysia grass turf.	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application.
		3.0				Qld Blue couch, Hybrid couch c.v. Tifdwarf; Turf cool season species	
		4.5				Kentucky Blue grass	
		3.0				Perennial, Ryegrass, Bent grass	
 Pendimethalin (Battalia)	3	3.4	Pre	S	12 Hours	Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, and Zoysia grass turf.	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application. Dangerous to fish and other aquatic life.
		2.3				Qld Blue couch, Hybrid couch c.v. Tifdwarf;	
		3.4				Kentucky Blue grass	
		2.3				Perennial, Ryegrass, Bent grass	

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Pendimethalin (Pendi-Pro 22-0-5)	3	220 - 260	Pre	S	NS	Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, Zoysia grass turf, Kentucky bluegrass	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application. Toxic to aquatic organisms including fish. Delay reseeding treated areas for 4 months and sprigging by 5 months after application and then cultivate the soil to dilute any remaining chemical residue. On newly planted areas wait until the grass has been mowed four times and has filled in before using.
		160 - 220				Qld Blue couch, Hybrid couch c.v. Tifdwarf; Perennial, Ryegrass, Bent grass	
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Prodiamine (Barricade/Spartan)	3	1 - 4.0	Pre	S	Dried	Established turf Bahia Grass, Buffalo Grass, Carpet Grass, Common Couch, Hybrid couch, Kikuyu, Qld Blue Couch, Seashore Paspalum, Zoysia	Barnyard Grass, Parramatta Grass, Rat's Tail Fescue, Summer Grass. DO NOT plant seeds in treated soil for 6 months after application.
Quinclorac (Drive XL)	4	4.6	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications, 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications.
Quinclorac (Quinstar)	4	4.1	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications, 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications.
Quinclorac (Steer 750)	4	1.1	Post	S	Dried	Common couch, hybrid couch, Japanese lawnglass, marine couch, perennial ryegrass, creeping bentgrass, Kentucky Bluegrass	Summergrass, white clover, kikuyu. One application: Weeds at cotyledon stage up to prior to second tiller OR Weeds at 5 tillers and greater. Two applications, 21 to 28 days apart: Weeds from 2 to 4 tillers. The addition of a crop oil adjuvant may improve weed control in unfavourable weather conditions. For Kikuyu suppression, apply twice, 14 to 21 days apart. Best results are gained from Autumn applications.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Swinecress <i>Coronopus squamatus</i>							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Thistles <i>Carduus spp.</i> - Sowthistle / Milk Thistle <i>Sonchus oleraceus</i> - Spear Thistle / Black Thistle <i>Cirsium vulgare</i> - Stemless Thistle <i>Onopordum acanthium</i> - Tumbleweed / Russian Thistle <i>Salsola australis</i>							
2,4-D (2,4-D Amine 625)	4	1.6 - 3.2	Post	S	NS	Lawns, Playing fields	Bathurst Burr, Bindweed, California Burr, Caltrop, Capeweed, Charlock, Clover, Cobblers Peg, Docks, Fat Hen, Fennel, Flatweed, Fumitory, Hogweed/Wireweed, Khaki Weed, Morning Glory, Mustards, Paterson's Curse, Skeleton Weed, Saffron, Slender Spear or Variegated Thistle, Sorrel, Turnip Weed, Wild Radish, Wild Turnip. DO NOT spray if rain seems likely within 6 hours or if strong winds prevail. DO NOT use on Buffalo grass (WA only).
Bentazone + Dicamba + MCPA (3D/Lawn weeder Plus)	6 4	6.0	Post	S	NS	Lawns & turf	Mullumbimby Couch, Creeping Oxalis, Bindii (Dwarf Jo-Jo), Sowthistle, Dandelion, Flatweeds, Cudweed, Fleabane, Dock, Chickweed, Clover & Lambs Tongue. DO NOT mow turf for at least 3 days before or after spray application. DO NOT apply if rain is expected within 8 hours. DO NOT apply to Lippia, Strawberry Clover, Buffalo or Saltene lawns.
Bromoxynil + Dicamba + MCPA (Fairway/Broadside /Triple Time)	6 4	4 - 5.0	Post	S	NS	Recreational turf Established Couch (Including Queensland Blue), Kikuyu, Paspalum, Fescue, Bent and Rye Lawns Recreational turf Established Couch (Including Queensland Blue),	Broadleaf weeds including: Bindii, Capeweed, Carrot Weed, Catsear, Caustic Weed, Clovers, Common Plantain, Creeping Buttercup, Cudweed, Dandelion, Fleabane, Funnel Weed, Jo-Jo (Onehunga), Thistles, Three-cornered Jack (Doublegee), Wood Sorrel. DO NOT spray when rain seems likely to occur within 3 hours. DO NOT apply to Buffalograss.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Kikuyu, Paspalum, Fescue, Bent and Rye Lawns	
Bromoxynil + MCPA (Bronco MA-X)	6 4	4.3	Post	S	NS	Turf / established Couch (incl. Queensland Blue), Kikuyu, Paspalum, Buffalo, Fescue, Bent, & Rye Lawns	Bindii, Jo-Jo (Onehunga), Cudweed, Dandelion, Catsear, Plantains, Thistles, Oxalis, Capeweed, Creeping Buttercup, Fleabane, Clover (NOT TAS). DO NOT mow turf for 2 days after treatment.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + Prosulfuron (Casper)	4 2	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Trifloxsulfuron sodium (Monument/ Recondo)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Toad Rush <i>Juncus bufonius</i>							
Dicamba (Cutlass 500/Dicam)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (Ravage/ Contra M/ Cutlass M/ Double Time)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
							application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Pendimethalin and dimethenamid-p (Freehand)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.
Winter Grass / Annual Poa							
<i>Poa annua</i>							
Amicarbazone (Xtron)	5	0.17 - 0.3	Post	S	NS	Couchgrass, kikuyu, buffalo, seashore paspalum, zoysia, fine fescue, tall fescue, perennial ryegrass	Very toxic to aquatic life. Do not use in Homegarden. DO NOT apply when daytime temperaturs exceed 25°C. Apply when air temperaturs are between 12-25°C. Maintain good soil moisture. Very toxic to aquatic life.
		0.17				Kentucky bluegrass	
Bispyribac-Sodium (Nominee)	2	1.0	Post	S	NS	Golf course greens, sportsfields (tall fescue) and perennial ryegrass.	Wintergrass. Very toxic to aquatic life.
Dithiopyr (Dimension)	3	1.75 - 3.5	Pre and Post	S	Dried	Bahia grass, Kentucky bluegrass, Buffalo grass, Carpet grass, Centipede grass, Couch	Crabgrass, Summer grass, Barnyard grass, Chickweed, Crowsfoot Grass. DO NOT use on newly seeded, sodded, or sprigged turf that is not well-established. DO NOT use on turf weakened by weather conditions or by physical damage due to intensive use or cultural practices (such as scarification, coring, aeration top dressing). DO NOT use on Bent grasses. DO NOT use on golf greens or bowling greens. Irrigation or rainfall within 7 days after application may enhance performance by promoting weed germination. Over-seeding, re-seeding or sprigging of treated areas within 3 months (6 months if 3.5 L/ha is used) after application may inhibit the establishment of desirable turfgrasses. Where no irrigation of treated turf has occurred, over-seeding should be delayed for 12 months.
Dithiopyr (Dithiomax 19-0-5)	3	250	Pre and Post	S	NS	Bahia grass) Buffalo grass Carpet grass Centipede grass Chewings Fescue Green Couch* Kentucky Bluegrass Kikuyu (Pennisetum clandestinum) Perennial Ryegrass Queensland Blue Couch Sweet Smother (Durban grass) Tall Fescue	Crabgrass, Summer grass, Winter grass, Barnyard grass, Chickweed, Crowsfoot grass.

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						Zoysia (Zoysia spp.) * Includes common and hybrid cultivars	
Endothal (Poacheck)	31	1.5	Post	S	NS	Blue couch, common couch, bent, buffalo, and New Zealand Brown Top lawns and turf.	Apply 2-3 sprays spaced 10- 14 days apart in late winter to early spring. Apply as a fine mist spray in 50-100L of water per 1000m ² . Apply before seed heads form. Can also be applied in Autumn and early Winter, although new germinations will have to be retreated. Apply when winter grass is becoming evident. One spray may be sufficient. Dangerous to fish and other aquatic organisms
Ethofumesate (Ethos/Scanner/ Tramat/Matrix)	15	0.8	Pre and Post	S	NS	Established turf; Bent Grasses (including Brown Top Bent), Kentucky Blue-Grass Kikuyu, Queensland Blue Couch, Ryegrass / Post emergent	Winter Grass in NSW, ACT, VIC, TAS, SA, WA ONLY.
Foramsulfuron (Tribute)	2	1.5 -2.0	Post	S	Dried	Turf - ONLY Couchgrass (common & hybrid Couchgrass) & Zoysia grass	Winter Grass, Ryegrass, Crowsfoot Grass, Goose Grass, Paspalum, Kikuyu (suppression ONLY) DO NOT apply to Queensland Blue Couch. DO NOT apply within two weeks of couchgrass sprigging. DO NOT apply within one week prior to overseeding couchgrass with a cool season grass such as ryegrass, as some temporary stunting may occur for up to two weeks. Avoid mowing during the three to four days preceding or following treatment.
Indaziflam (Specticle)	29	0.25	Pre	S	Dried	Bahia grass, Buffalo grass, Common couch, Queensland Blue Couch, kikuyu, zoysia	Summer grass or Crab grass, Crowsfoot grass, Winter grass. DO NOT apply Specticle on uphill slopes and adjacent to greens overseeded with cool season grasses. DO NOT apply Specticle to annual and perennial ryegrass or to couchgrass overseeded with ryegrass. The minimum interval between application of Specticle and seeding or overseeding is 12 months. DO NOT use on golf greens, tees or collars. Very toxic to aquatic life.
Iodosulfuron-methyl (Destiny/Duke)	2	0.05 - 0.15	Post	S	Dried	Turf - ONLY apply to Kikuyu, Buffalo Grass / Couchgrass (Common & Hybrid Couchgrass)	Ryegrass, Bindii, Black Thistle, Cat's Ear, Cotula, Cudweed, Guildford Grass / Onion Grass, Medic, Mouse ear chickweed, Oxalis, White Clover, False Onion Weed / Fragrant False Garlic / Onion Weed. Suppression: Winter Grass, Bahia Grass. NOT Queensland Blue Couch. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.
Methiolzol (Poacure)	Z	2-4	Pre and Post	S	Dried	Putting greens, Bowling greens, Fairways and Tees and surrounding areas. Playing fields	DO NOT apply when summer air temperatures are consistently above 30°C or immediately following stressful (hot, dry) summer weather.
Metolachlor (Pennmag/Meteor)	15	2.0	Pre	S	Dried	Turf	African Love Grass, Annual Ryegrass, Barnyard Grass, Burr Medic, Carrot Weed, Crowsfoot Grass, Liverseed Grass, Pigeon Grass, Summer Grass, Winter Grass & suppression of Pigweed
Oxadiazon (Oxamax/Echelon/Ronstar)	14	300 - 400	Pre	S	NS	For use on warm season turf grass areas, including fairways, golf tees, municipal sports	Control of Summer Grass, Crowsfoot, Winter Grass, Creeping Oxalis, DO NOT mow treated area until product has been watered in and turf foliage has dried. Avoid application when daytime temperatures are consistently above 32°C. This product is not recommended for use on putting greens. DO NOT apply on turf

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
						fields, industrial & commercial lawns	containing Carpet Grass and Dichondra unless some damage is acceptable. DO NOT use on Santa anna couch.
Oryzalin (Prolan)	3	2.4 - 4.0	Pre	S	NS	Couch/ kikuyu	Wintergrass, Annual ryegrass, Crabgrass, Chickweed. DO NOT use on newly seeded turf areas. DO NOT use on turf under stress. DO NOT use on Bent grass or Wintergrass. DO NOT use on golf greens or bowling greens. DO NOT apply if forecast heavy rain or storms are likely to cause runoff. DO NOT irrigate to the point of runoff. Allow at least 10 weeks between last application and overseeding/oversowing. Very toxic to aquatic life.
Pendimethalin (Pendant)	3	4.5	Pre	S	12 hours	Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, and Zoysia grass	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application.
		3.0				Qld Blue couch, Hybrid couch c.v. Tifdwarf	
		4.5				Kentucky Blue grass	
		3.0				Perennial, Ryegrass, Bent grass	
Pendimethalin (Battalia)	3	3.4	Pre	S	12 hours	Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, and Zoysia grass	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application.
		2.25				Qld Blue couch, Hybrid couch c.v. Tifdwarf	
		3.4				Kentucky Blue grass	
		2.25				Perennial, Ryegrass, Bent grass	
Pendimethalin (Pendi-Pro 22-0-5)	3	220 - 260	Pre	S	NS	Kikuyu, Couch, Salt water Couch, Buffalo grass, Bahia grass, Zoysia grass turf, Kentucky bluegrass	Summer grass, Crowsfoot (Crabgrass), Winter grass. DO NOT apply if rain is expected within 2 hours of application. Toxic to aquatic organisms including fish. Delay reseeding treated areas for 4 months and sprigging by 5 months after application and then cultivate the soil to dilute any remaining chemical residue. On newly planted areas wait until the grass has been mowed four times and has filled in before using.
		160 - 220				Qld Blue couch, Hybrid couch c.v. Tifdwarf; Perennial, Ryegrass, Bent grass	
Propyzamide (Revere/ Checkpoint)	3	0.6 - 1.2	Pre and Post	S	NS	Common Couch, Qld Blue Couch, Buffalo	Apply during the Autumn and Winter, if established turf is infested with seedling Winter Grass. Ensure a uniform coverage. Irrigate immediately after application with 12- 25 mm irrigation or rain and again 24 hours later. Repeat treatment, if necessary, on Queensland Blue Couch after 4 weeks. DO NOT RESEED FOR 60 DAYS AFTER TREATMENT. Use ONLY on established turf. DO NOT use on Bluegrass, Ryegrass, Fescue or Bent Grass Lawns

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Re-try Period	Area of usage: Turf or Fencelines	Weeds & Comments
Rimsulfuron (<i>Coliseum</i>)	2	0.120	Post	S	Dried	Common Couch, Hybrid Couch	Wintergrass and ryegrass. DO NOT mow for 1 to 2 days prior to and following application. Allow at least 10 days between the last application and over-seeding with cool season grasses for winter cover.
Trifloxsulfuron sodium (<i>Monument/ Recondo</i>)	2	0.115 - 0.3	Post	S	Dried	Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia.	Bindii, Burr Medic, Catsear, Chickweed, Clover, Cotula, Creeping Oxalis, Curled Dock, Milk Thistle, Mullumbimby Couch, Nutgrass, Bindii / Jo-Jo, Perennial ryegrass, Annual ryegrass, Winter Grass, Suppression ONLY: Kikuyu, Bahia Grass - seedhead & suppression. Rainfast within 3 hours of application. For optimum performance avoid mowing for 1 to 2 days prior to and following application.
Wireweed / Knotweed/Hogweed <i>Polygonum aviculare</i>							
2,4-D + Dicamba + Mecoprop (<i>Methar Tri-Kombi</i>)	4	3 - 4.2	Post	S	NS	Amenity turf & newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed, Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on Buffalo Grass. Do not mow turf for 2 days before or after treatment
Dicamba (<i>Cutlass 500/Dicam</i>)	4	1.2	Post	S	NS	Turf	ALL states: Catsear, Cudweeds, Pennywort, Lamb's Tongue, Fleabanes, Fumitory, Wireweed, Chickweed, Cotula, Sorrel, Dock, Clovers, Capeweed, Toad Rush, Peppercress, Dandelion, Medics, Scarlet Pimpernel, Creeping Oxalis, Pearlwort, Trefoil, Yarrow, Bindii, Jo-Jo (Onehunga) QLD, NSW, TAS, SA, WA, NT ONLY: Fat Hen, Red Flowered Mallow, Purple Top, Stagger Weed, Swine Cress. DO NOT spray on Buffalo Grass, Bent Grass, Lippia or Strawberry Clover.
Dicamba + MCPA (<i>Ravage/ Contra M/ Cutlass M/ Double Time</i>)	4	6.5	Post	S	NS	Turf	Bindii, Capeweed, Catsear, Chickweed, Clovers, Cotula, Creeping Oxalis, Cudweeds, Dandelion, Dock, Fleabane, Fumitory, Jo-Jo (Onehunga), Lambs Tongue, Medics, Mustards, Narrow-Leaved Plantain, Pearlwort, Pennywort, Peppercress, Radish, Scarlet Pimpernel, Slender Thistle, Soldier Thistle, Spear Thistle, Toad Rush, Variegated Thistle, Wild Turnip, Wireweed (Hogweed), Fat Hen, Purple-Top, Red Flowered Mallow, Staggerweed, Swinecress. DO NOT mow turf for two days before or after application or fertilize within two weeks of spraying. DO NOT re-apply to Buffalo Grass within 12 months.
Dicamba + MCPA + Mecoprop (<i>Sportsground</i>)	4	3 - 4.2	Post	S	NS	Turf / newly sown turf	Clovers, Creeping Oxalis, Pearlwort, Chickweed. Mouse-Eared Chickweed, Lambs Tongue, Dandelion, Catsear, Fat Hen, Mallow, Staggerweeds, Fumitory, Bindii, Cobblers Peg, Wireweed. DO NOT use on buffalograss.
Dicamba + Prosulfuron (<i>Casper</i>)	4	0.6 - 1.2	Post	S	Dried	Established fine & amenity turf	Bindii, Blackberry Nightshade, Catsear, Chickweed, Creeping Oxalls, Curled Dock, Khaki Weed, Milk Thistle, Bindii, Burr Medic, Cotula, Dandelion, Fleabane, Lambs Tongue / Plantain, Subterranean Clover, Wireweed, Pennywort, White Clover. DO NOT use on Buffalo
Pendimethalin and dimethenamid-p (<i>Freehand</i>)	3 and 15	100kg	Pre	S	NS	Couch, kikuyu, zoysia, buffalo, carpetgrass, QLD couch	Apply to dry foliage only and then sprinkler irrigate or hose (10-15 mm) to wash granules from foliage and incorporate the herbicide into the soil. DO NOT apply to turf grass within 2 weeks of mechanical disturbance such as aerification or verticutting. DO NOT apply to newly seeded turf areas.

5.0 Registered Industrial Herbicides

WEED / Active Ingredient/ Common product name	Chemical Group	Rate L/Ha	Pre or Post	Selective (S) or	Retry Period	Area of usage: Turf or Fencelines	Weeds & Comments
Acetic acid (Erase Fast weedkiller)					NS	Gardens Paths, driveways	Do not apply if rain within 2 hours.
Glufosinate-ammonium (Exonerate/Basta)	10	25 - 50	Post	T	Dried	Line marking, industrial rights of way	Visible symptoms of control appear in 3 - 7 days, but complete desiccation may take 20 - 30 days under cool conditions. Best results are achieved when application is made under good growing conditions.
Glyphosate 360 (Various)	9	1.2 - 7.2	Post	T	NS	Woody and Perennial weeds in pastures, forests and non-agricultural areas.	
Indaziflam (Esplanade)	29	0.15	Pre	S		Non-crop areas around buildings, commercial and industrial areas including public service areas, rights of way, rail tracks, roadsides, guideposts, powerlines, substations, airports, public utilities and fence lines.	Apply this product prior to weed seed germination. Do not exceed 300 mL/ha (150 g a.i./ha) in a 12-month period after the previous application. Do not re-apply within six months of the first application.
Nonanoic acid (Slasher)		Mix 7 litres per 100 litres water. Apply 900-1400 L spray per ha	Post	T	Dried	Including around buildings, Commercial and Industrial areas, Domestic and Public Service areas, Rights-of-way, Bushland & Forests	Ensure that all weed foliage is totally covered with spray as Slasher is a contact spray. Partial coverage will give only partial control. FOR PROFESSIONAL USE ONLY.
Paraquat (Various)	22	1.6 - 4.0	Post	T	NS	NonAgricultural situations, around sheds, roadways, paths	
Terbutylazine + Glyphosate + Amitrole + Oxyfluorfen (Numchuck Quad)	5 9 34 14	20	Pre and Post	T	NS	Fencelines	NOT registered in turf. Provides knockdown control and residual control of most annual, perennial and broadleaf weeds for 8 – 12 months. Apply sufficient spray to obtain even coverage. Apply in spring or autumn when all weeds are actively growing, and while soil is moist. Do not apply under drought conditions. For best results add 120 mL/100 L tallow amine ethoxylate surfactant or other suitable wetting agent. Sufficient rainfall (20-30 mm) to wet the soil through the weed root zone is necessary within 2 to 3 weeks of application.



6.0 Turf Herbicide Tolerance

Turf Tolerance to herbicides for warm and cool season turf - Warm season Turf														
ACTIVE INGREDIENT	PRODUCT	Bahia	Buffalo	Carpet	Couch	Kikuyu	QBC	Saltwater Couch	Zoysia	Bentgrass	K. Bluegrass	Fine Fescue	Tall Fescue	P. Ryegrass
Bentazon	3D	T	T	T	T	T	T	T	T	T	T	T	S	T
Bromoxynil	Bronco	T	T	M	T	T	M	T	T	T	T	T	S	T
Carfentrazone	Smackdown	T	T	T	T	S	T	T	T	T	T	T	T	T
Clopyralid	Warhead	T	M	T	T	M	T	T	T	T	T	T	T	T
2,4-D	2,4-D Amine 625	T	M	T	T	T	T	T	T	M	T	T	T	T
Dicamba	Cutlass	T	S	T	T	T	T	T	T	M	T	T	T	T
Diclofop-methyl	Destro	T	T	T	T	T	T	T	T	S	S	S	S	S
Dithiopyr	Dimension	T	T	T	T	T	T	T	T	S	T	T	T	T
DSMA	DSMA	S	S	S	T	S	S	S	M	M	T	T	M	S
Endothal	Poachek	S	T	M	T	S	T	S	M	M	T	S	S	T
Ethofumesate	Matrix	M	M	T	S	T	M	M	S	T	T	S	T	T
Foramsulfuron	Tribute	S	M	M	S	S	S	S	M	S	S	S	S	S
Fluroxypyr, Florasulam	Crest	T	T	T	T	T	T	T	T	T	T	T	T	T
Iodosulfuron	Duke	S	T	S	T	T	S	S	T	S	S	S	S	S
Halosulfuron-methyl	Prosedge	M	T	T	T	T	M	M	T	S	S	S	S	S
Mecoprop	Numerous	T	T	T	T	T	T	T	T	T	T	T	T	T
MCPA	MCPA 750	T	T	T	T	T	T	T	T	T	T	T	T	T
MSMA	Gauntlet	S	S	S	T	S	S	S	M	M	T	T	M	S
Oxadiazon	Echelon	T	S	T	T	T	M	T	T	S	T	S	T	M
Pendamethalin	Battalia	T	T	T	T	T	T	T	T	M	T	T	T	T
Propyzamide	Checkpoint	T	T	S	T	T	T	T	T	S	S	S	S	S
Quinclorac	Quinstar	T	S	S	T	S	S	T	T	T	T	M*	T	T
Rimsulfuron	Colliseum	N/A	T	N/A	T	S	S	N/A	T	S	S	S	S	S
Trifloxysulfuron Sodium	Monument	S	M	S	T	S	S	S	T	S	S	S	S	S

Note: T = Tolerant at label rates

M = Moderately susceptible at label rate and some leaf damage is likely

S = Susceptible to damage at label rates

N/A = Unknown

7.0 Fungicides

Cultural practices are the best means of dealing fungal infections but if these happen to fail then the only option available is to use one of the many proprietary fungicides (-cide meaning to kill) available on the market. However, this term is in itself rather misleading as these products do not actually kill the fungi but prevent its ability to grow and reproduce by stopping the growth of hyphae after spore germination or preventing germination at all. Because of this the term fungistats is probably better.

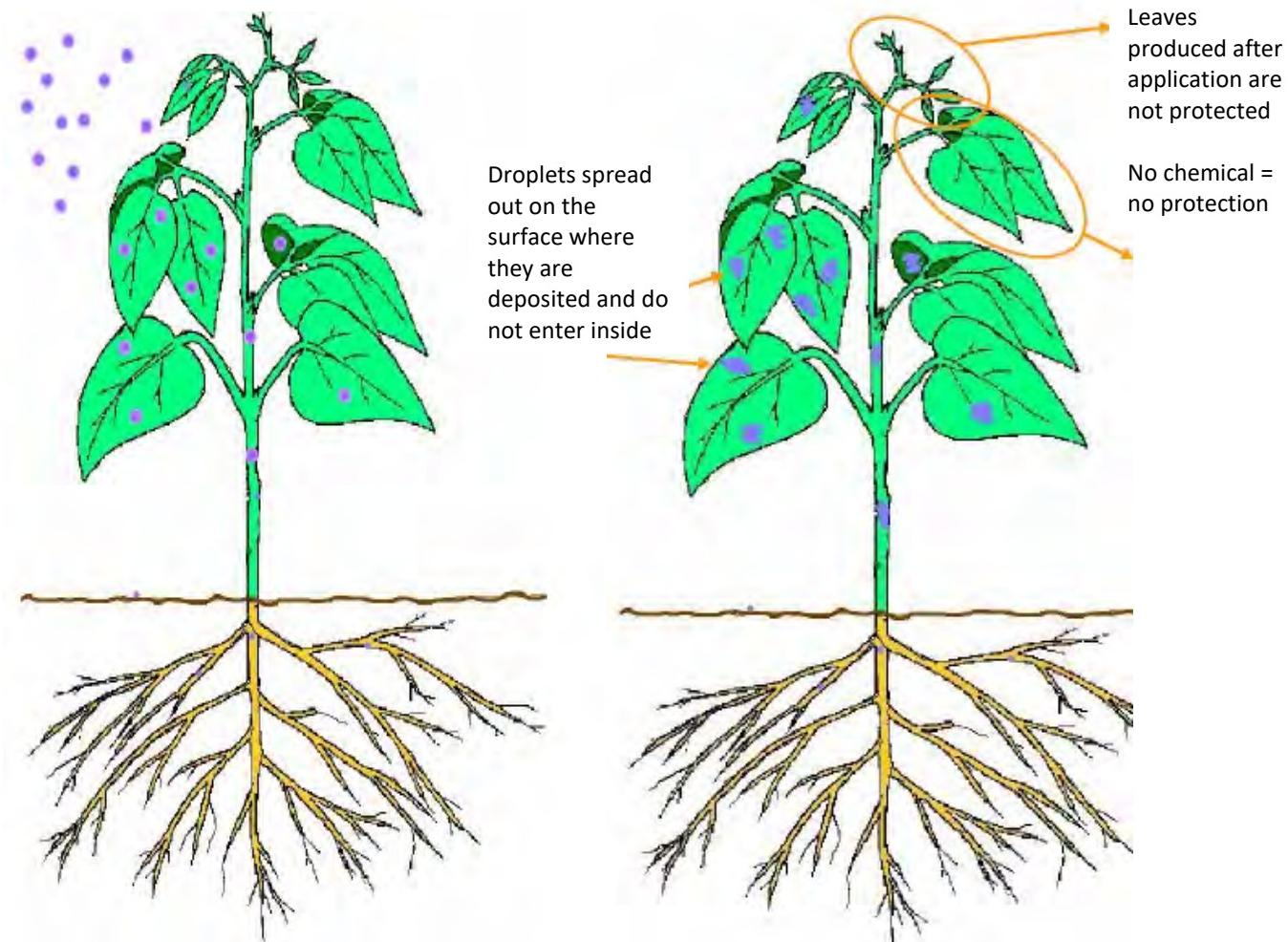
Turf managers' have the option of either carrying out curative or preventative control programmes. The former are adopted once disease symptoms develop and the latter, as the name suggests, before symptoms develop when conditions favour the disease.

The fungicides from which one can choose can be either contact or systemic. Contact fungicides form a protective barrier on the tissue surface but do not penetrate plant tissue. As a result of this they are subjected to the elements and chemical decomposition and have to be reapplied every 7 to 14 days to maintain protection.

Systemic fungicides can be either root adsorbed or penetrate tissue and move within the plant. Because they penetrate plant tissue, they are less likely to be washed off or exposed to external decomposing agents and so only need to be applied every 21-28 days. Some of these fungicides simply restrict mycelial growth. The affected fungi sometimes produce even larger numbers of viable spores to survive the period of adversity. Once the concentration of the chemical has dissipated, the viable spores can germinate and/or the old mycelium can grow again. These chemicals also have chemotherapeutic activity because they suppress the growth of pathogens that have already penetrated the plant.

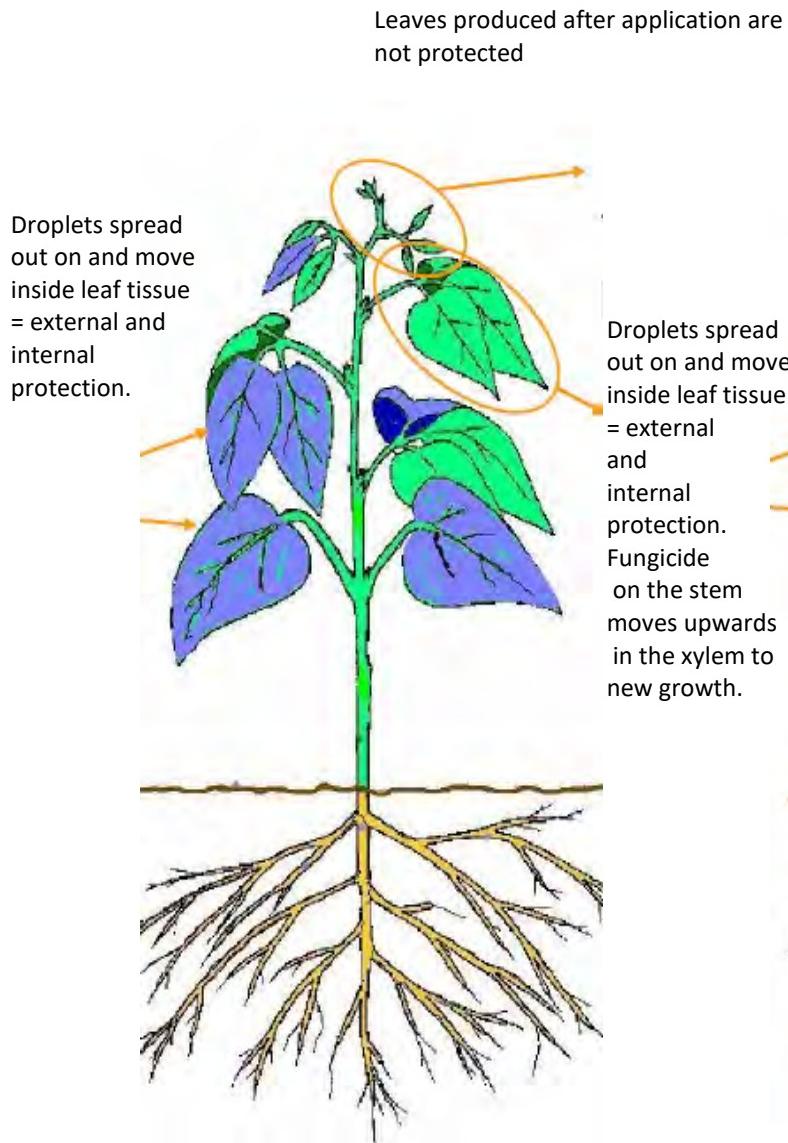
7.1 Fungicide modes of action-contact

Contact (protectant) Fungicide

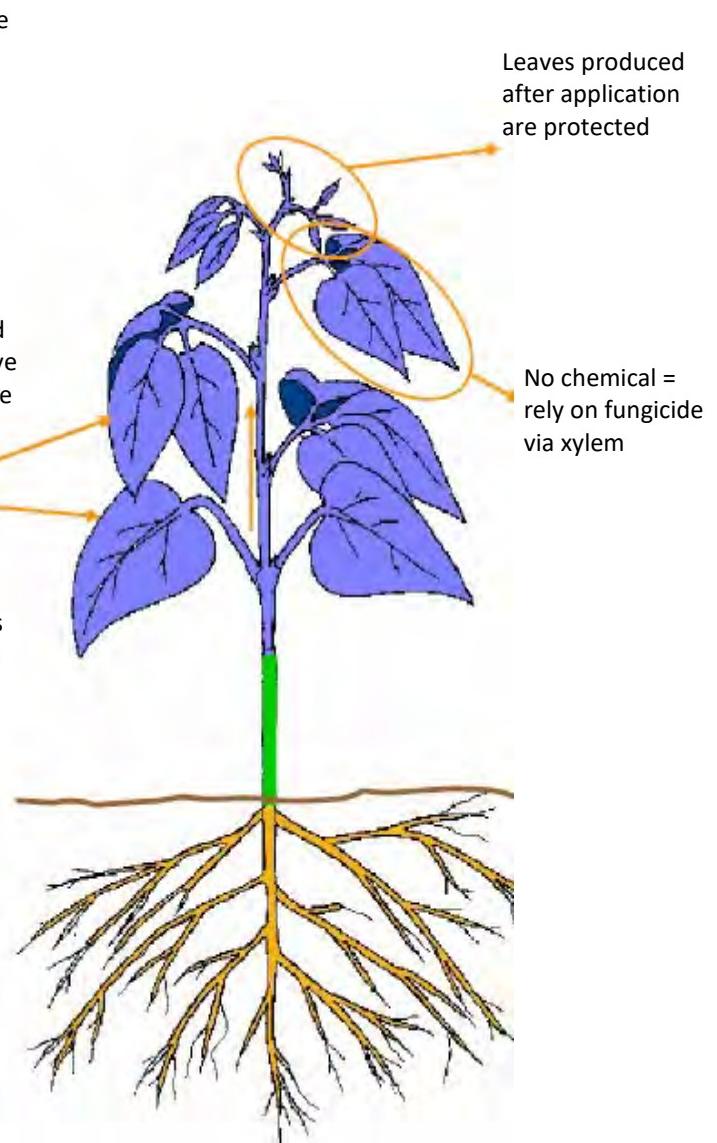


7.2 Fungicide modes of action-locally systemic/systemic

Locally systemic (translaminar) Fungicide



Systemic (acropetal) Fungicide



7.3 Common Turf Fungal Diseases



Anthracnose (*Colletotrichum graminicola*)
Brown patch (*Rhizoctonia solani*)



Couch grass decline
(*Gaeumannomyces graminis var. graminis*)



Curvularia spp



Dollar spot (*Sclerotinia homoeocarpa*)



Fairy Ring (Basidiomycete)



Helminthosporium spp



Pythium spp



Pythium spp



Spring Dead Spot (*Leptosphaeria spp*)

8.0 Registered Turf Fungicides

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Anthracnose (<i>Colletotrichum graminicola</i>)							
Azoxystrobin (Vantage/Azoxyl/ Heritage Maxx)	11	Contact and systemic	6.0	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin (Azoxy 250/Azo-Force 250SC) 	11	Contact and systemic	2.3	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass.
Azoxystrobin + Tebuconazole (Evolution)	11 + 3	Contact and systemic	2-3.0	300-500	21-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Fairy ring. Very toxic to aquatic life.
Chlorothalonil + Iprodione + Thiophanate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 +3	Contact and systemic	16-24	350-500	21-28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, Helminthosporium, Spring Dead spot. Harmful to bee brood.
Chlorothalonil + Propiconazole + Fludioxonil (Instrata)	M5 + 3 + 12	Contact and systemic	18.0	350-500	28	Bowling greens & golf courses	Anthracnose, Brown Patch, Dollar Spot, Helminthosporium Disease, Winter Fusarium / Microdochium Patch.
Fluazinam (Assure/Gemini/ Emerald/Compass)	29	Contact	1.5	400-800	7-14	Turf	Anthracnose, Brown Patch, Dollar Spot, Gray Leaf Spot, Helminthosporium Disease, Fusarium. Very toxic to aquatic life.
Fludioxonil (Medallion/ Sceptre)	12	Contact	3.0	300-500	14-21	Turf	Anthracnose, Brown Patch, Dollar Spot, Helminthosporium Disease, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Fludioxonil + Triticonazole (Tribeca)	12 + 3	Contact and systemic	6.0	350-500	14-28	Turf and Lawns	Anthracnose, Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Helminthosporium Disease, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life. Harmful to bees. Can have a growth regulatory effect.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Fosetyl aluminium (Signature Xtra Stressgard)	33	Systemic	5.5-16.5	400-800	14-21	Turf	Preventative. Toxic to aquatic life.
Mandestrobin (Rapidol)	11	Systemic	4.0	400	14-21	Turf	Anthracnose, Brown patch (suppression), Dollar spot, Fairy Ring, Winter fusarium. Very toxic to aquatic life.
Mefentrifluconazole (Maxtima)	3	Acropetal penetrant	1.25-1.8	400-2000	14	Turf	Applications of Maxtima Fungicide are not limited by temperature, nor turf variety, rather it can be applied anywhere, at any temperature and on any turf. Very toxic to aquatic life.
Penthiopyrad (Velista)	7	Systemic	1-1.5	400	14-21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by Helminthosporium disease, Red Thread, Spring Dead Spot, Fairy ring.
Propiconazole (Banner Maxx)	3	Systemic (acropetal)	5-10.0	350-500	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium and ERI pathogens.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Gray Leaf Spot, Rust, Fairy ring for professional use only.
Tebuconazole + Trifloxystrobin (Dedicate/ Tombstone Duo/ Patriot)	3 + 11	Contact and systemic	2	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Helminthosporium, Leptosphaerulina, White Helminthosporium, Winter Fusarium, Spring Dead Spot & Ectotrophic Root Infecting Fungi (ERI).
							
Thiophanate-methyl + Fluazinam + Tebuconazole (Clean Sweep Trio)	1 29 3	Contact and systemic	12-20	400-800	14-28	Turf	Dollar Spot, Helminthosporium Disease, Anthracnose, Brown Patch, Ectotrophic Root infecting Fungi (ERI) including Couchgrass Decline and Take All Patch and Fairy ring.
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, Helminthosporium, winter fusarium. Very toxic to aquatic life.
Brown Patch <i>Rhizoctonia solani</i>							
Azoxystrobin (Azoxy 250/Azo-Force 250SC)	11	Contact and systemic	2.3	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin (Vantage/Azoxyl/ Heritage Maxx)	11	Contact and systemic	6.0	350-1000	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
							Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Tebuconazole (Evolution)	11 + 3	Contact and systemic	2-3.0	300-500	21-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Fairy ring. Very toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass
Captan (Captan)	M4	Contact	9-13.5	400	7-14	Turf	Brown Patch. Dangerous to fish
Chlorothalonil (Daconil Weather Stick/Squadron/Conan/Reserve Stressgard)	M5	Contact	13-20	350-500	14-21	Turf & lawns, bowling greens, golf greens	Brown Patch, Dollar Spot, Gray Leaf Spot. Dangerous to fish.
Chlorothalonil + Iprodione + Thiophanate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 +3	Contact and systemic	16-24	350-500	21-28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, Helminthosporium, Spring Dead spot. Harmful to bee brood.
Chlorothalonil + Propiconazole + Fludioxonil (Instrata)	M5 + 3 + 12	Contact and systemic	18.0	350-500	28	Bowling greens & golf courses	Anthracnose, Brown Patch, Dollar Spot, Helminthosporium Disease, Winter Fusarium / Microdochium Patch.
Fluazinam (Assure/Gemini/Emerald/Compass)	29	Contact	1.5	400-800	7-14	Turf	Anthracnose, Brown Patch, Dollar Spot, Gray Leaf Spot, Helminthosporium Disease, Fusarium. Very toxic to aquatic life.
Fludioxonil (Medallion/Sceptre)	12	Contact	3.0	300-500	14-21	Turf	Anthracnose, Brown Patch, Dollar Spot, Helminthosporium Disease, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Fludioxonil + Triticonazole (Tribeca)	12 + 3	Contact and systemic	6.0	350-500	14-28	Turf and Lawns	Anthracnose, Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Helminthosporium Disease, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life. Harmful to bees. Can have a growth regulatory effect.
Fluopyram+ Trifloxystrobin (Exteris StressGard)	7 + 11	Contact and systemic	10.0	400-800	14-28	Turf	Brown patch, Dollar spot, Fusarium/Microdochium patch, Gray Leaf Spot, Helminthosporium, Rust. Very toxic to aquatic life.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Fairy Ring, Fusarium, Helminthosporium Disease, Lepista, Pythium, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Iprodione (Voltar 250 GT/Assensi Iprodione 250/Campbell 250GT)	2	Contact/loco-systemic	12-18	400	14	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Iprodione 365/Assensi 365)	2	Contact/loco-systemic	8-12.5	400-1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots: (Black and white Helminthosporium spot). Toxic to aquatic organisms.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Iprodione (Chief Aquaflo, Fungol 500, Ippon 500, Voltar 500)	2	Contact/loco-systemic	6-9.0	1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & <i>Helminthosporium</i> disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Chief Topflo)	2	Contact/loco-systemic	5-7.2	1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & <i>Helminthosporium</i> disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms. Toxic to aquatic organisms.
Iprodione + Trifloxystrobin (Interface Stressgard)	2 + 11	Contact and systemic	12.5	800-1600	14-28	Turf	Brown Patch, Dollar Spot, Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> Disease & Rust. Very toxic to aquatic life.
Mancozeb (Penncozeb 750)	M3	Contact	20-25	400	7-14	Turf	Fusarium, <i>Helminthosporium</i> & Rhizoctonia. Dangerous to fish.
Mandestrobin (Rapidol)	11	Systemic	4.0	400	14-21	Turf	Anthracnose, Brown patch (suppression), Dollar spot, Fairy Ring, Winter fusarium. Very toxic to aquatic life.
Mefentrifluconazole (Maxtima)	3	Acropetal penetrant	1.8-2.5	400-2000	14	Turf	Applications of Maxtima Fungicide are not limited by temperature, nor turf variety, rather it can be applied anywhere, at any temperature and on any turf. Very toxic to aquatic life.
Penthiopyrad (Velista)	7	Systemic	1-1.5	400-750	14-21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by <i>Helminthosporium</i> disease, Red Thread, Spring Dead Spot, Fairy ring.
Propiconazole (Banner Maxx)	3	Systemic (acropetal)	5-10.0	350-500	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, <i>Helminthosporium</i> and ERI pathogens.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, <i>Helminthosporium</i> , Gray Leaf Spot, Rust, Fairy ring for professional use only.
Tebuconazole + Trifloxystrobin (Dedicate/Tombstone Duo/Patriot)	3 + 11	Contact and systemic	2.0	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, <i>Helminthosporium</i> , Leptosphaerulina, White <i>Helminthosporium</i> , Winter Fusarium, Spring Dead Spot & Ectotrophic Root Infecting Fungi (ERI).
							
Thiophanate-methyl + Fluazinam + Tebuconazole (Clean Sweep Trio)	1 29 3	Contact and systemic	12-20	400-1000	14-28	Turf	Dollar Spot, <i>Helminthosporium</i> Disease, Anthracnose, Brown Patch, Ectotrophic Root infecting Fungi (ERI) including Couchgrass Decline and Take All Patch and Fairy ring.
Thiram (Flowable TMTD/ Thiraflo)	M3	Contact, protectant	16	200	7-14	Turf & lawns, bowling greens & golf greens	Brown Patch, <i>Helminthosporium</i> Leaf Spot, Fusarium Patch and Damping Off.
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, <i>Helminthosporium</i> , winter fusarium. Very toxic to aquatic life.
<i>Curvularia Leaf Spot</i>							
Curvularia spp							
Penthiopyrad (Velista)	7	Systemic	1-1.5	400	14-21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
							Helminthosporium disease, Red Thread, Spring Dead Spot, Fairy ring.
Tebuconazole + Trifloxystrobin (Dedicate/ Tombstone Duo/ Patriot) 	3 + 11	Contact and systemic	2.0	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Helminthosporium, Leptosphaerulina, White Helminthosporium, Winter Fusarium, Spring Dead Spot & Ectotrophic Root Infecting Fungi (ERI).
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass, Buffalo	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, Helminthosporium, winter fusarium. Very toxic to aquatic life.

Dollar Spot

Sclerotinia homoeocarpa

Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Tebuconazole (Evolution)	11 + 3	Contact and systemic	2-3.0	300-500	21-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Fairy ring. Very toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass
Boscalid (Filan/Midas)	7	Systemic, curative, eradicant	0.78	400	14-28	Turf	Dollar Spot. Toxic to aquatic life.
Chlorothalonil (Daconil Weather Stick/Squadron/ Conan/Reserve Stressgard)	M5	Contact	13-20	350-500	14-21	Turf & lawns, bowling greens, golf greens	Brown Patch, Dollar Spot, Gray Leaf Spot. Dangerous to fish.
Chlorothalonil + Iprodione + Thiofanphonate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 +3	Contact and systemic	16-24	350-500	21-28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, Helminthosporium, Spring Dead spot. Harmful to bee brood.
Chlorothalonil + Propiconazole + Fludioxonil (Instrata)	M5 + 3 + 12	Contact and systemic	18.0	350-500	28	Bowling greens & golf courses	Anthracnose, Brown Patch, Dollar Spot, Helminthosporium Disease, Winter Fusarium / Microdochium Patch.
Fludioxonil (Medallion/ Sceptre)	12	Contact	3.0	300-500	14-21	Turf	Anthracnose, Brown Patch, Dollar Spot, Helminthosporium Disease, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Fluazinam (Assure/Gemini/Emerald/Compass)	29	Contact	1.5	400-800	7-14	Turf	Anthracnose, Brown Patch, Dollar Spot, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Fusarium. Very toxic to aquatic life.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Fairy Ring, Fusarium, <i>Helminthosporium</i> Disease, Lepista, Pythium, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Fludioxonil + Triticonazole (Tribeca)	12 + 3	Contact and systemic	6.0	350-500	14-28	Turf and Lawns	Anthracnose, Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), <i>Helminthosporium</i> Disease, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life. Harmful to bees. Can have a growth regulatory effect.
Fluopyram+ Trifloxystrobin (Exteris StressGard)	7 + 11	Contact and systemic	10.0	400-800	14-28	Turf	Brown patch, Dollar spot, Fusarium/Microdochium patch, Gray Leaf Spot, <i>Helminthosporium</i> , Rust. Very toxic to aquatic life.
Iprodione (Voltar 250 GT/Assensi Iprodione 250/Campbell 250GT)	2	Contact/loco-systemic	12-15	400	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & <i>Helminthosporium</i> disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Iprodione 365/Assensi 365/Qualipro I-pro 365)	2	Contact/loco-systemic	8.0	400-1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & <i>Helminthosporium</i> disease affecting leaf, crown and roots: (Black and white <i>Helminthosporium</i> spot). Toxic to aquatic organisms.
Iprodione (Chief Aquaflo, Fungol 500, Ippon 500, Voltar 500)	2	Contact/loco-systemic	4.5-9.0	1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & <i>Helminthosporium</i> disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Chief Topflo)	2	Contact/loco-systemic	5-7.2	1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & <i>Helminthosporium</i> disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione + Trifloxystrobin (Interface Stressgard)	2 + 11	Contact and systemic	12.5	800-1600	14-28	Turf	Brown Patch, Dollar Spot, Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> Disease & Rust. Very toxic to aquatic life.
Mandestrobin (Rapidol)	11	Systemic	4.0	400	14-21	Turf	Anthracnose, Brown patch (suppression), Dollar spot, Fairy Ring, Winter fusarium. Very toxic to aquatic life.
Mefentrifluconazole (Maxtima)	3	Acropetal penetrant	1.25	400-2000	14-28	Turf	Applications of Maxtima Fungicide are not limited by temperature, nor turf variety, rather it can be applied anywhere, at any temperature and on any turf. Very toxic to aquatic life.
Penthiopyrad (Velista)	7	Systemic	1-1.5	400	14-21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by <i>Helminthosporium</i> disease, Red Thread, Spring Dead Spot, Fairy ring.
Prochloraz (Mirage/Sportak/Protak)	3	Systemic	6.5	500	28	Turf	Dollar Spot. Harmful to fish.
Procymidone (Sumisclex/Sporex)	2	Systemic with protective and curative	6.5	500-1000	14-28	Turf	Dollar Spot and Black <i>Helminthosporium</i> in QLD, NSW, ACT, VIC, SA & WA only. Spring Dead Spot. Do not apply to hybrid couch varieites April through to September.
Propiconazole (Banner Maxx)	3	Systemic (acropetal)	5-10.0	350-500	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, <i>Helminthosporium</i> and ERI pathogens.
Propiconazole (Banner Fairway)	3	Systemic (acropetal)	3-6.0	1000	14-28	Bentgrass, couch and QLD blue	Dollar spot and spring dead spot.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Propiconazole (Prop 500)	3	Systemic (acropetal)	1.5-3.0	1000	14-28	Bentgrass, QLD Blue, couch	Dollar spot and spring dead spot.
Propiconazole (Regiment 550) 	3	Systemic (acropetal)	1.4-2.8	1000	14-28	Bentgrass, QLD Blue, perennial ryegrass, couch	Dollar spot, Rust and spring dead spot.
Propiconazole (Bumper 625)	3	Systemic (acropetal)	1.2-2.4	1000	14-28	Turf	Dollar spot and spring dead spot.
Pydiflumetofen (Posterity)	7	Systemic	0.5-1.0	350-800	14-28	Turf	Dollar spot, mycrodochium and spring dead spot. May be harmful to bee brood. Very toxic to aquatic life.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Gray Leaf Spot, Rust, Fairy ring for professional use only.
Tebuconazole + Trifloxystrobin (Dedicate/Tombstone Duo/Patriot) 	3 + 11	Contact and systemic	3.0	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Helminthosporium, Leptosphaerulina, White Helminthosporium, Winter Fusarium, Spring Dead Spot & Ectotrophic Root Infecting Fungi (ERI).
Thiabendazole (Vorlon/Sharda)	1	Systemic	3.8-5.6	400	14-21	Turf	Dollar Spot & Fusarium Patch.
Thiophanate-methyl + Fluazinam + Tebuconazole (Clean Sweep Trio)	1 29 3	Contact and systemic	12-20	1000	28	Turf	Dollar Spot, Helminthosporium Disease, Anthracnose, Brown Patch, Ectotrophic Root infecting Fungi (ERI) including Couchgrass Decline and Take All Patch and Fairy ring.
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, Helminthosporium, Winter fusarium. Very toxic to aquatic life.
Triadimenol (Citadel/Jarrah/Patchwork/Bayfidan)	3	Systemic	3-6.0	400	28	Turf	Dollar Spot in ALL states but NOT TAS & NT. Black Helminthosporium in QLD, NSW & TAS only. Take-all Patch in ALL states but not SA & NT. Winter fusarium NSW, VIC and TAS only. Harmful to fish. DO NOT apply than 5 weeks after sowing turf

Ectotrophic Root infecting fungi (ERI)

Spring dead spot (*Leptosphaeria spp.*) *Ophiophaerella naman*

Take all patch (*Gaeumannomyces graminis* var. *avenae*)

Couchgrass Decline (*Gaeumannomyces graminis* var. *graminis*)

Azoxystrobin (Azox 250/Azo-Force 250SC)	11	Contact and systemic	2.3	1000	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf
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Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
							Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fairy Ring, Fusarium, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass.
Chlorothalonil + Iprodione + Thiophanate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 +3	Contact and systemic	24	750+	28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, Helminthosporium, Spring Dead spot. Harmful to bee brood.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Fairy Ring, Fusarium, Helminthosporium Disease, Lepista, Pythium, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Fludioxonil + Triticonazole (Tribeca)	12 + 3	Contact and systemic	6.0	1000	28	Turf and Lawns	Anthracnose, Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Helminthosporium Disease, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life. Harmful to bees. Can have a growth regulatory effect.
Iprodione (Voltar 250 GT/Assensi Iprodione 250/Campbell 250GT)	2	Contact/loco-systemic	9	1000	28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Chief Aquaflo, Fungol 500, Ippon 500, Voltar 500)	2	Contact/loco-systemic	6.5	1000	7-14	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Chief Topflo)	2	Contact/loco-systemic	5.2	1000	28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms. Toxic to aquatic organisms.
Mefentrifluconazole (Maxtima)	3	Acropetal penetrant	1.8-2.5	400-2000	14-28	Turf	Applications of Maxtima Fungicide are not limited by temperature, nor turf variety, rather it can be applied anywhere, at any temperature and on any turf. Very toxic to aquatic life.
Penthiopyrad (Velista)	7	Systemic	1-1.5	750	14	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by Helminthosporium disease, Red Thread, Spring Dead Spot, Fairy ring.
Procymidone (Sumisclex/Sporex)	2	Systemic with protective and curative	6.0	500-1000	28	Turf	Dollar Spot and Black Helminthosporium in QLD, NSW, ACT, VIC, SA & WA only. Spring Dead Spot. Do not apply to hybrid couch varieites April through to September.
Propiconazole (Banner Maxx)	3	Systemic (acropetal)	10.0	1000	28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium and ERI pathogens.
Propiconazole (Banner Fairway)	3	Systemic (acropetal)	6.0	1000	14-28	Bentgrass, couch and QLD blue	Dollar spot and spring dead spot.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Propiconazole (Prop 500)	3	Systemic (acropetal)	3.0	100	14-28	Bentgrass, QLD Blue, couch	Dollar spot and spring dead spot.
Propiconazole (Regiment 550) 	3	Systemic (acropetal)	2.8	1000	14-28	Bentgrass, QLD Blue, perennial ryegrass, couch	Dollar spot, Rust and spring dead spot.
Propiconazole (Bumper 625)	3	Systemic (acropetal)	2.4	1000	28	Bentgrass, QLD Blue, couch	Dollar spot and spring dead spot.
Pydiflumetofen (Posterity)	7	Systemic	0.5-1.0	350-800	28	Turf	Dollar spot, mycdochium and spring dead spot. May be harmful to bee brood. Very toxic to aquatic life.
Tebuconazole + Trifloxystrobin (Dedicate/Tombstone Duo/Patriot) 	3 + 11	Contact and systemic	2.0	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Helminthosporium, Leptosphaerulina, White Helminthosporium, Winter Fusarium, Spring Dead Spot & Ectrophic Root Infecting Fungi (ERI).
Thiophanate-methyl + Fluazinam + Tebuconazole (Clean Sweep Trio)	1 29 3	Contact and systemic	20	1000	28	Turf	Dollar Spot, Helminthosporium Disease, Anthracnose, Brown Patch, Ectrophic Root infecting Fungi (ERI) including Couchgrass Decline and Take All Patch and Fairy ring.
Triadimenol (Citadel/Jarrah/Bayfidan)	3	Systemic	6.0	1000	28	Turf	Dollar Spot in ALL states but NOT TAS & NT. Black Helminthosporium in QLD, NSW & TAS only. Take-all Patch in ALL states but not SA & NT. Winter fusarium NSW, VIC and TAS only. Harmful to fish. DO NOT apply than 5 weeks after sowing turf
Fairy Ring <i>Basidiomycetes fungi</i>							
Azoxystrobin + Tebuconazole (Evolution)	11 + 3	Contact and systemic	2-3.0	300-500	21-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Fairy ring. Very toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass
Flutalonil (Monstar)	7		15-20	400	14-28	Recreational turf	Fairy Ring. Very toxic to aquatic life.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectrophic root infecting fungi (ERI), Fairy Ring, Fusarium, Helminthosporium Disease, Lepista, Pythium,

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
							Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Mandestrobin (Rapidol)	11	Systemic	4.0	400	14-21	Turf	Anthracnose, Brown patch (suppression), Dollar spot, Fairy Ring, Winter fusarium. Very toxic to aquatic life.
Penthiopyrad (Velista)	7	Systemic	1-1.5	1000	21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by Helminthosporium disease, Red Thread, Spring Dead Spot, Fairy ring.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	1000-1600	28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Gray Leaf Spot, Rust, Fairy ring for professional use only.
Tolclofos-methyl (Shiba)	14	Contact	8-10	1000	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, Helminthosporium, winter fusarium. Very toxic to aquatic life.

Gray Leaf Spot

Pyricularia grisea

Azoxystrobin (Vantage/Azoxyl/Heritage Maxx)	11	Contact and systemic	6.0	350-1000	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin (Azoxy 250/Azo-Force 250SC)	11	Contact and systemic	2.3	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, Helminthosporium Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Chlorothalonil (Daconil Weather Stick/Squadron/Conan/Reserve Stressgard)	M5	Contact	13-20	350-500	14-21	Turf & lawns, bowling greens, golf greens	Brown Patch, Dollar Spot, Gray Leaf Spot. Dangerous to fish.
Chlorothalonil + Iprodione + Thiophanate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 + 3	Contact and systemic	16-24	350-500	21-28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, Helminthosporium, Spring Dead spot. Harmful to bee brood.
Fluazinam (Assure/Gemini/Emerald/Compass)	29	Contact	1.5	400-800	7-14	Turf	Anthracnose, Brown Patch, Dollar Spot, Gray Leaf Spot, Helminthosporium Disease, Fusarium. Very toxic to aquatic life.
Fluopyram+Trifloxystrobin (Exteris StressGard)	7 + 11	Contact and systemic	10.0		Dried	Turf	Brown patch, Dollar spot, Fusarium/Microdochium patch, Gray Leaf Spot, Helminthosporium, Rust. Very toxic to aquatic life.
Iprodione + Trifloxystrobin (Interface Stressgard)	2 + 11	Contact and systemic	12.5	800-1600	14-28	Turf	Brown Patch, Dollar Spot, Fusarium, Gray Leaf Spot, Helminthosporium Disease & Rust. Very toxic to aquatic life.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Gray Leaf Spot, Rust, Fairy ring for professional use only.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, <i>Helminthosporium</i> , winter fusarium. Very toxic to aquatic life.
<i>Helminthosporium Disease / Leaf Spot</i>							
(Bipolaris spp, Drechslera spp, Exserohilum spp.)							
Azoxystrobin (Vantage/Azoxyl/Heritage Maxx)	11	Contact and systemic	6.0	350-1000	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin (Azoxyl 250/Azo-Force 250SC)	11	Contact and systemic	2.3	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Tebuconazole (Evolution)	11 + 3	Contact and systemic	2-3.0	300-500	21-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, <i>Helminthosporium</i> , Fairy ring. Very toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, <i>Helminthosporium</i> Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass
Chlorothalonil (Daconil Weather Stick/Squadron/Conan/Reserve Stressgard)	M5	Contact	13-20	350-500	14-21	Turf & lawns, bowling greens, golf greens	Brown Patch, Dollar Spot, Gray Leaf Spot. Dangerous to fish.
Chlorothalonil + Iprodione + Thiophanate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 +3	Contact and systemic	16-24	350-500	21-28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> , Spring Dead spot. Harmful to bee brood.
Chlorothalonil + Propiconazole + Fludioxonil (Instrata)	M5 + 3 + 12	Contact and systemic	18.0	350-500	28	Bowling greens & golf courses	Anthracnose, Brown Patch, Dollar Spot, <i>Helminthosporium</i> Disease, Winter Fusarium / Microdochium Patch.
Fluazinam (Assure/Gemini/Emerald/Compass)	29	Contact	1.5	400-800	7-14	Turf	Anthracnose, Brown Patch, Dollar Spot, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Fusarium. Very toxic to aquatic life.
Fludioxonil (Medallion/Sceptre)	12	Contact	3.0	300-500	14-21	Turf	Anthracnose, Brown Patch, Dollar Spot, <i>Helminthosporium</i> Disease, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Fludioxonil + Triticonazole (Tribeca)	12 + 3	Contact and systemic	6.0	350-500	14-28	Turf and Lawns	Anthracnose, Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), <i>Helminthosporium</i> Disease, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life. Harmful to bees. Can have a growth regulatory effect.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Fluopyram+ Trifloxystrobin (Exteris StressGard)	7 + 11	Contact and systemic	10.0	400-800	14-28	Turf	Brown patch, Dollar spot, Fusarium/Microdochium patch, Gray Leaf Spot, Helminthosporium, Rust. Very toxic to aquatic life.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Fairy Ring, Fusarium, Helminthosporium Disease, Lepista, Pythium, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Iprodione (Voltar 250 GT/Assensi Iprodione 250/Campbell 250GT)	2	Contact/loco-systemic	9	400	7-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Iprodione 365/ Assensi 365)	2	Contact/loco-systemic	6.5	400-1000	7-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots: (Black and white Helminthosporium spot). Toxic to aquatic organisms.
Iprodione (Chief Aquaflo, Fungol 500, Ippon 500, Voltar 500)	2	Contact/loco-systemic	4.5	1000	7-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Chief Topflo)	2	Contact/loco-systemic	3.6	1000	7-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms. Toxic to aquatic organisms.
Iprodione + Trifloxystrobin (Interface Stressgard)	2 + 11	Contact and systemic	12.5	800-1600	14-28	Turf	Brown Patch, Dollar Spot, Fusarium, Gray Leaf Spot, Helminthosporium Disease & Rust. Very toxic to aquatic life.
Mancozeb (Penncozeb 750)	M3	Contact	20-25	400	7-14	Turf	Fusarium, Helminthosporium & Rhizoctonia. Dangerous to fish.
Penthiopyrad (Velista)	7	Systemic	1-1.5	400	14-21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by Helminthosporium disease, Red Thread, Spring Dead Spot, Fairy ring.
Procymidone (Sumisclex/Sporex)	2	Systemic with protective and curative	6.0	500-1000	14-28	Turf	Dollar Spot and Black Helminthosporium in QLD, NSW, ACT, VIC, SA & WA only. Spring Dead Spot. Do not apply to hybrid couch varieites April through to September.
Propiconazole (Banner Maxx)	3	Systemic (acropetal)	5-10.0	350-500	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium and ERI pathogens.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Gray Leaf Spot, Rust, Fairy ring for professional use only.
Tebuconazole + Trifloxystrobin (Dedicate/ Tombstone Duo/ Patriot)	3 + 11	Contact and systemic	2.0	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Helminthosporium, Leptosphaerulina, White Helminthosporium, Winter Fusarium, Spring Dead Spot & Ectotrophic Root Infecting Fungi (ERI).
	M3	Contact	16	200	7-14	Turf & lawns, bowling greens & golf greens	Brown Patch, Helminthosporium Leaf Spot, Fusarium Patch and Damping Off.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Thiophanate-methyl + Fluazinam + Tebuconazole (Clean Sweep Trio)	1 29 3	Contact and systemic	12-20	400-800	14-28	Turf	Dollar Spot, <i>Helminthosporium</i> Disease, Anthracnose, Brown Patch, Ectotrophic Root infecting Fungi (ERI) including Couchgrass Decline and Take All Patch and Fairy ring.
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, <i>Helminthosporium</i> , winter fusarium. Very toxic to aquatic life.
Triadimenol (Citadel/Jarrah/Patchwork/Bayfidan)	3	Systemic	6.0	400	28	Turf	Dollar Spot in ALL states but NOT TAS & NT. Black <i>Helminthosporium</i> in QLD, NSW & TAS only. Take-all Patch in ALL states but not SA & NT. Winter fusarium NSW, VIC and TAS only. Harmful to fish. DO NOT apply than 5 weeks after sowing turf
Zineb (Zineb)	M3	Contact			7-14	Turf	Registered for use on bowling greens lawns, golf greens & tennis courts for the control of <i>Helminthosporium</i> / Damping Off.

Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off

Pythium spp.

Azoxystrobin (Vantage/Azoxo/Heritage Maxx)	11	Contact and systemic	6.0	350-1000	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Red Thread, Winter Fusarium / <i>Microdochium</i> Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin (Azoxo 250/Azo-Force 250SC)	11	Contact and systemic	2.3	1000	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Red Thread, Winter Fusarium / <i>Microdochium</i> Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-1000	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, <i>Helminthosporium</i> Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass.
Cyazofamid (Segway)	21	Contact	1.0	400-500	21	Turf	Very toxic to aquatic life.
Etridiazole (Terrazole)	14	Contact	10-25	1000	5-10	Newly seeded & established turf	Damping Off / Grease Spot (<i>Pythium</i> spp.) for NSW, ACT, VIC, SA & WA ONLY. Dangerous to fish and other aquatic organisms.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Fairy Ring, Fusarium, <i>Helminthosporium</i> Disease, Lepista, Pythium, Take all patch, Winter Fusarium / <i>Microdochium</i> Patch. Very toxic to aquatic life.
Fosetyl-aluminium (Fosetyl 800/Grenadier)	33	Systemic	12.5	500-2000	21	Golf, bowling greens and intensively managed turf	Apply as a foliar spray. DO NOT mow or water treated area until foliage is completely dry.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
							
Fosetyl aluminium (Signature Xtra Stressgard)	33	Systemic	5.5-16.5	400-800	14-21	Turf	Preventative. Toxic to aquatic life.
Metalaxyl-M (Subdue Maxx/Solitaire/Mayfair/Triumph) 	4	Curative	1.7-3.5	1000	14-21	Turf	Apply in sufficient water to obtain coverage. Use the lower rate as a preventative treatment. Use the higher rate as a curative or as a preventative treatment during times of high infection pressure. Repeat at 3 to 4-week intervals.
Propamocarb (Previcur/Proplant/Banol/Schrapnel) 	28	Systemic	4.5-6.5	1000	21-28	Recreational Turf	Apply in sufficient water to obtain coverage. Use the lower rate as a preventative treatment. Use the higher rate as a curative or as a preventative treatment during times of high infection pressure. Repeat at 3 to 4- week intervals.
Thiram (Flowable TMTD/Thiraflo)	M3	Contact	20	600	7-14	Turf & lawns, bowling greens & golf greens	Brown Patch, Helminthosporium Leaf Spot, Fusarium Patch and Damping Off.
Red Thread (<i>Laerisaria fuciformis</i>)							
Azoxystrobin (Vantage/Azoxo/Heritage Maxx)	11	Contact and systemic	6.0	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin (Azoxo 250/Azo-Force 250SC)	11	Contact and systemic	2.3	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, Helminthosporium Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Penthiopyrad (Velista)	7	Systemic	1-1.5	400	14-21	Turf	Anthracnose, Brown Patch, Curvularia Leaf Spot, Dollar Spot, Leaf spots such as caused by Helminthosporium disease, Red Thread, Spring Dead Spot, Fairy ring.
Rust (<i>Puccinia</i> spp.)							
Fluopyram+Trifloxystrobin (Exteris StressGard)	7 + 11	Contact and systemic	10.0	400-800	14-28	Turf	Brown patch, Dollar spot, Fusarium/Microdochium patch, Gray Leaf Spot, Helminthosporium, Rust. Very toxic to aquatic life.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Iprodione + Trifloxystrobin (Interface Stressgard)	2 + 11	Contact and systemic	12.5	800-1600	14-28	Turf	Brown Patch, Dollar Spot, Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> Disease & Rust. Very toxic to aquatic life.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, <i>Helminthosporium</i> , Gray Leaf Spot, Rust, Fairy ring for professional use only.

Winter Fusarium / Microdochium Patch/ Fusarium Patch

(*Microdochium/ Fusarium nivale*)

Azoxystrobin (Vantage/Azoxyl/ Heritage Maxx)	11	Contact and systemic	6.0	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off. Highly toxic to aquatic life.
Azoxystrobin (Azoxyl 250/Azo-Force 250SC)	11	Contact and systemic	2.3	350-500	21-28	Turf	Anthracnose, Brown Patch, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Red Thread, Winter Fusarium / Microdochium Patch, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring dead spot. Highly toxic to aquatic life.
Azoxystrobin + Propiconazole (Headway Maxx)	11 + 3	Contact and systemic	9.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Winter Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Highly toxic to aquatic life.
Azoxystrobin + Tebuconazole (Evolution)	11 + 3	Contact and systemic	2-3.0	300-500	21-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, <i>Helminthosporium</i> , Fairy ring. Very toxic to aquatic life.
Azoxystrobin + Triticonazole (Impala)	11 + 3	Contact and systemic	6.0	350-500	28	Turf	Anthracnose, Brown Patch, Couchgrass Decline, Dollar Spot, Fusarium, <i>Helminthosporium</i> Disease, Pythium Leaf Blight, Pythium Root Rot, Seedling Damping Off, Spring Dead Spot, Take-all Patch. Very toxic to aquatic life. Growth regulatory effect especially on wintergrass
Chlorothalonil (Daconil Weather Stick/Squadron/ Conan/Reserve Stressgard)	M5	Contact	13-20	350-500	14-21	Turf & lawns, bowling greens, golf greens	Brown Patch, Dollar Spot, Gray Leaf Spot. Dangerous to fish.
Chlorothalonil + Iprodione + Thiophanate methyl + Tebuconazole (Qualipro-Enclave)	M5 + 2 + 1 +3	Contact and systemic	16-24	350-500	21-28	Bowling greens, golf course fairways, greens and tees, racetracks and sportsfields.	Anthracnose, Brown patch, Dollar spot, Fusarium, Gray Leaf Spot, <i>Helminthosporium</i> , Spring Dead spot. Harmful to bee brood.
Chlorothalonil + Propiconazole + Fludioxonil (Instrata)	M5 + 3 + 12	Contact and systemic	18.0	350-500	28	Bowling greens & golf courses	Anthracnose, Brown Patch, Dollar Spot, <i>Helminthosporium</i> Disease, Winter Fusarium / Microdochium Patch.
Fludioxonil (Medallion/ Sceptre)	12	Contact	3.0	300-500	14-21	Turf	Anthracnose, Brown Patch, Dollar Spot, <i>Helminthosporium</i> Disease, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Fludioxonil + Triticonazole (Tribeca)	12 + 3	Contact and systemic	6.0	350-500	14-28	Turf and Lawns	Anthracnose, Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), <i>Helminthosporium</i> Disease, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life. Harmful to bees. Can have a growth regulatory effect.
Fluopyram+ Trifloxystrobin (Exteris StressGard)	7 + 11	Contact and systemic	10.0	400-800	14-28	Turf	Brown patch, Dollar spot, Fusarium/Microdochium patch, Gray Leaf Spot,

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
							Helminthosporium, Rust. Very toxic to aquatic life.
Fluxapyroxad + Pyraclostrobin (Lexicon Intrinsic)	7 + 11	Contact and systemic	1-1.5	400-2000	14-28	Turf	Brown Patch, Dollar Spot, Ectotrophic root infecting fungi (ERI), Fairy Ring, Fusarium, Helminthosporium Disease, Lepista, Pythium, Take all patch, Winter Fusarium / Microdochium Patch. Very toxic to aquatic life.
Iprodione (Voltar 250 GT/Assensi Iprodione 250/Campbell 250GT)	2	Contact/loco-systemic	18	400	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms. Not QLD.
Iprodione (Iprodione 365/ Assensi 365)	2	Contact/loco-systemic	12.5	400-1000	7-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots: (Black and white Helminthosporium spot). Toxic to aquatic organisms.
Iprodione (Chief Aquaflo, Fungol 500, Ippon 500, Voltar 500)	2	Contact/loco-systemic	9.0	1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms.
Iprodione (Chief Topflo)	2	Contact/loco-systemic	7.2	1000	14-28	Recreational turf	Brown Patch, Dollar Spot, Fusarium Patch, Leaf Spot & Helminthosporium disease affecting leaf, crown and roots, Spring dead spot. Toxic to aquatic organisms. Toxic to aquatic organisms.
Iprodione + Trifloxystrobin (Interface Stressgard)	2 + 11	Contact and systemic	12.5	800-1600	14-28	Turf	Brown Patch, Dollar Spot, Fusarium, Gray Leaf Spot, Helminthosporium Disease & Rust. Very toxic to aquatic life.
Mancozeb (Penncozeb 750)	M3	Contact	20-25	400	7-14	Turf	Fusarium, Helminthosporium & Rhizoctonia. Dangerous to fish.
Mandestrobin (Rapidol)	11	Systemic	4.0	400	14-21	Turf	Anthracnose, Brown patch (suppression), Dollar spot, Fairy Ring, Winter fusarium. Very toxic to aquatic life.
Propiconazole (Banner Maxx)	3	Systemic (acropetal)	5-10.0	35-500	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium and ERI pathogens.
Pydiflumetofen (Posterity)	7	Systemic	0.5-1.0	350-800	14-28	Turf	Dollar spot, microdochium and spring dead spot. May be harmful to bee brood. Very toxic to aquatic life.
Tebuconazole (Dedicate Forte)	3	Systemic (acropetal)	3.5	400-800	14-28	Turf	Anthracnose, Brown patch, Dollar spot, Fusarium, Helminthosporium, Gray Leaf Spot, Rust, Fairy ring for professional use only.
Tebuconazole + Trifloxystrobin (Dedicate/ Tombstone Duo/ Patriot)	3 + 11	Contact and systemic	2.0	400-1600	14-28	Turf	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Helminthosporium, Leptosphaerulina, White Helminthosporium, Winter Fusarium, Spring Dead Spot & Ectotrophic Root Infecting Fungi (ERI).
							
Thiabendazole (Vorlon/Sharda)	1	Systemic	7.6	400	14-21	Turf	Dollar Spot & Fusarium Patch.
Thiram (Flowable TMTD/ Thiraflo)	M3	Contact, protectant	16	200	7-14	Turf & lawns, bowling greens & golf greens	Brown Patch, Helminthosporium Leaf Spot, Fusarium Patch and Damping Off.

Disease / Active Ingredient	Chem. Group	Mode of action	Rate L/Ha	Water volume L/Ha	Interval Days	Turf Type	Comments
Tolclofos-methyl (Shiba)	14	Contact	8-10	400	14-21	Green Couch, Creeping Bentgrass & Buffalo grass	Anthracnose, Brown Patch, Curvularia, Dollar Spot, Fairy Ring, Gray Leaf Spot, <i>Helminthosporium</i> , winter fusarium. Very toxic to aquatic life.
Triadimenol (Citadel/Jarrahd/Patchwork/Bayfidan)	3	Systemic	6.0	400	28	Turf	Dollar Spot in ALL states but NOT TAS & NT. Black <i>Helminthosporium</i> in QLD, NSW & TAS only. Take-all Patch in ALL states but not SA & NT. Winter fusarium NSW, VIC and TAS only. Harmful to fish. DO NOT apply than 5 weeks after sowing turf

9.0 Registered Turf Insecticides

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
Argentine Stem Weevil							
<i>Listronotus bonariensis</i>							
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & Grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Bifenthrin (Sentinel 2G)	3A	Contact. Quick knockdown of target populations		60 - 120	NS	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant. Dangerous to fish and other organisms.
Bifenthrin (Sentinel 80SC)	3A	Contact. Quick knockdown of target populations		1.5 - 3.0	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to aquatic organisms.
Bifenthrin (Biff/Rumbler/Venom) 	3A	Contact. Quick knockdown of target populations		1.2 - 2.4	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to fish or other aquatic organisms.
Chlorantraniliprole (Acelepryn WG)	28	Insect muscle paralysis leads to death.		75 - 150	NS	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Chlorantraniliprole (Acelepryn)	28	Insect muscle paralysis leads to death.		0.75 - 1.5	Dried	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Cyantraniliprole + Thiamethoxam (Spinner)	28 + 4A	Insect muscle paralysis leads to death. Anti-feeding		1.0	Dried	Established Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Very toxic to aquatic life.
Diazinon (Pennside)	1B	Contact		12.5 - 25.0	NS	Turf	African black beetle (NSW, QLD, SA, WA, VIC ONLY), Argentine Stem Weevil (NSW, VIC, SA, TAS, WA ONLY), Mole cricket (QLD & NSW ONLY) &

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
							Grass-eating caterpillars (NSW, QLD, VIC, WA ONLY). Dangerous to fish.
Fipronil (Instar)	2B	Contact or ingestion		75 - 100	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Very toxic to aquatic life. In domestic turf situations, use is only by authorised lawn care specialists, professional pest managers or persons with relevant chemical handling certification.
Fipronil (Warden)	2B	Contact or ingestion		0.75	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Highly toxic to fish and aquatic organisms.
Fipronil (Monarch)	2B	Contact or ingestion		0.6	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Highly toxic to fish and aquatic organisms.
Fipronil (Fipronil 200SC)	2B	Contact or ingestion		0.375	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Highly toxic to fish and aquatic organisms.
<i>Heterorhabditis zealandica</i> (Ecogrow)		Biological		7 x bowling packs	NS	Turf	For control of scarabs including: Argentine Scarab African Black Beetle, Red-headed Cockchafer, Black-headed Cockchafer; weevils - Black Vine Weevil, Argentine Stem Weevil & Bill Bug. Only apply Beneficial Nematodes at dusk outdoors. Do NOT apply at other times, even if it is overcast, as they cannot tolerate high UV light i.e direct sun. Once nematodes are applied, they will infect and stop the larvae feeding within 24-48 hours, and allow the turf and plants to start to recover. The product must not be refrigerated. Soil temperatures need to be above 15C at the time of application for the beneficial nematodes to be active.
Indoxacarb (Provaunt)	22A	Contact and ingestion leading to paralysis and to death.		1.25	Dried	Golf greens and surrounds	Argentine Stem Weevil larvae and adults. Caterpillars. Very toxic to aquatic life
Novaluron + Indoxacarb (Qualipro Twister)	15 + 22A	Contact and ingestion leading to paralysis and to death.		3.0	Dried	Turf	African Black Beetle, Argentine Stem Weevil, Billbug. For PROFESSIONAL use only. Toxic to beneficial arthropods.
Tetraniliprole (Tetrino)	28	Anti-feeding		1.15 - 2.3	NS	Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & Caterpillars including Black Cutworm, Lawn Armyworm. Toxic to beneficial arthropods. Very toxic to aquatic life.

Armyworms

Noctuidae
including:

- **Lawn Armyworm**

Spodoptera mauritia

- **Southern Armyworm / Barley Grub**

Persectania ewingii

Bacillus thuringiensis (Delfin)	11C	Biological		25 - 100g/100L	NS		Armyworm.
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
							African Black Beetle), Mole Crickets, Couch Mite, Ants & Grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Bifenthrin (Sentinel 2G)	3A	Contact. Quick knockdown of target populations		60.0	NS	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant. Dangerous to fish and other organisms.
Bifenthrin (Sentinel 80SC)	3A	Contact. Quick knockdown of target populations		1.5	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to aquatic organisms.
Bifenthrin (Biff/Rumbler/Venom) 	3A	Contact. Quick knockdown of target populations		1.2	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to fish or other aquatic organisms.
Chlorantraniliprole (Acelepryn WG)	28	Insect muscle paralysis leads to death.		75	NS	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Chlorantraniliprole (Acelepryn)	28	Insect muscle paralysis leads to death.		0.75	Dried	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Cyantraniliprole + Thiamethoxam (Spinner)	28 + 4A	Insect muscle paralysis leads to death. Anti-feeding		0.5	Dried	Established Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Very toxic to aquatic life.
Diazinon (Pennside)	1B	Contact		12.5	G		African black beetle (NSW, QLD, SA, WA, VIC ONLY), Argentine Stem Weevil (NSW, VIC, SA, TAS, WA ONLY), Mole cricket (QLD & NSW ONLY) & Grass-eating caterpillars (NSW, QLD, VIC, WA ONLY).
Indoxacarb (Provaunt)	22A	Contact and ingestion leading to paralysis and to death.		0.375	Dried	Golf greens and surrounds	Argentine Stem Weevil larvae and adults. Caterpillars. Very toxic to aquatic life
Tetraniliprole (Tetrino)	28	Anti-feeding		1.15	NS	Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm,

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
							Lawn Armyworm. Toxic to beneficial arthropods. Very toxic to aquatic life.
Billbug / La Plata Weevil							
<i>Sphenophorus brunneipennis</i>							
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		2 - 4.0	Dried		Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Bifenthrin (Sentinel 2G)	3A	Contact		60 - 120	NS	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant. Dangerous to fish and other organisms.
Bifenthrin (Sentinel 80SC)	3A	Contact		1.5 - 3.0	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to aquatic organisms.
Bifenthrin (Biff/ Rumbler/Venom 100 SC)	3A	Contact		1.2 - 2.43	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to fish or other aquatic organisms.
							
Chlorantraniliprole (Acelepryn WG)	28	Insect muscle paralysis leads to death.		75 - 150	NS	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Chlorantraniliprole (Acelepryn)	28	Insect muscle paralysis leads to death.		0.75 - 1.5	Dried	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Cyantraniliprole + Thiamethoxam (Spinner)	28 + 4A	Insect muscle paralysis leads to death. Anti-feeding		1.0	Dried	Established Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Very toxic to aquatic life.
Clothianidin (Stealth)	4A	Systemic		0.5-0.75	NS		Registered for 1st instar African Black Beetle larvae & Billbug larvae. This product is highly toxic to aquatic invertebrates.

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
<i>Heterorhabditis zealandica</i> (Ecogrow)		Biological		7 x bowling packs	NS		For control of scarabs including: Argentine Scarab African Black Beetle, Red-headed Cockchafer, Black-headed Cockchafer; weevils - Black Vine Weevil, Argentine Stem Weevil & Bill Bug. Only apply Beneficial Nematodes at dusk outdoors. Do NOT apply at other times, even if it is overcast, as they cannot tolerate high UV light i.e direct sun. Once nematodes are applied, they will infect and stop the larvae feeding within 24-48 hours, and allow the turf and plants to start to recover. The product must not be refrigerated. Soil temperatures need to be above 15C at the time of application for the beneficial nematodes to be active.
Imidacloprid (Mallet/Merit/Pride/Recruit) 	4A	Systemic, contact, stomach		2.5	NS	Turf	Registered for the control of African Black Beetle, Argentinian Scarab, Pruinose Scarab & larvae of Billbug.
Novaluron + Indoxacarb (Qualipro Twister)	15 + 22A	Contact and ingestion leading to paralysis and to death.		3.0	Dried	Turf	African Black Beetle, Argentine Stem Weevil, Billbug. For PROFESSIONAL use only. Toxic to beneficial arthropods.
Tetraniliprole (Tetrino)	28	Anti-feeding		1.15 - 2.3	NS	Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Toxic to beneficial arthropods. Very toxic to aquatic life.
Thiamethoxam (Columbus/Meridian)	4A	Systemic, contact, stomach		0.8 - 1.2	-	Turf/Lawns	Registered for the control of 1st instar larvae of African Black Beetle, 1st & 2nd instar larvae of Argentinian Scarab, larvae of Billbug.
Cutworms							
<i>Agrotis spp.</i> including: - Black Cutworm <i>Agrotis ipsilon</i>							
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Chlorantraniliprole (Acelepryn WG)	28	Insect muscle paralysis leads to death.		75	NS	Golf courses, Lawns including commercial and residential lawn	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
						areas, Sports grounds, Other sport and recreational turfgrass areas	
Chlorantraniliprole (Acelepryn)	28	Insect muscle paralysis leads to death.		0.75	Dried	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Cyantraniliprole + Thiamethoxam (Spinner)	28 + 4A	Insect muscle paralysis leads to death. Anti- feeding	✗	0.5	Dried	Established Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Very toxic to aquatic life.
Diazinon (Pennside)	1B	Non-systemic, respiratory, contact, stomach	✗	12.5 - 25.0	NS		African black beetle (NSW, QLD, SA, WA, VIC ONLY), Argentine Stem Weevil (NSW, VIC, SA, TAS, WA ONLY), Mole cricket (QLD & NSW ONLY) & Grass-eating caterpillars (NSW, QLD, VIC, WA ONLY). Dangerous to fish.
Indoxacarb (Provaunt)	22A	Contact and ingestion leading to paralysis and to death.	✗	0.375	Dried	Golf greens and surrounds	Argentine Stem Weevil larvae and adults. Caterpillars. Very toxic to aquatic life
Tetraniliprole (Tetrino)	28	Anti-feeding	✗	1.15	NS	Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Toxic to beneficial arthropods. Very toxic to aquatic life.

Eriophyoid Mites

Aceria spp.
including

- **Couchgrass Mite**

Aceria cynodonensis

Abamectin (Thumper/ Malice/Agador) 	6	Translaminar. Effective against adult and immature mites but has no effect on eggs.	✗	1-2	Dried	Couch	Registered for Couchgrass Mite. Also registered for soil borne parasitic ring and sting nematodes. When insects ingest Abamectin they are quickly paralysed and consequently plant damage is minimised. After application, it is quickly absorbed into leaf tissue where a reservoir of active ingredient remains to control leaf-feeding insects. This trans-laminar activity means longer control is achieved on both the upper and lower leaf surfaces and once inside the plant it cannot be weathered off.
Abamectin + Clofentezine (Malice Duo) 	6 + 10A	Contact and translaminar. Effective against adult and immature mites and eggs.	✗	1.35	Dried	Couch	Controls feeding stages of mites, whilst also controlling the egg and early mite larval stages. Toxic to beneficial arthropods. Very toxic to aquatic life.
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations	✗	2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
							African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Clofentezine (Apollo/Prophesy)	10A	Contact, residual, eggs and immature adults		0.5	Dried	Couch	Apply Campbell Apollo in an early curative situation (after first symptoms are apparent). Best results are achieved if applied as populations begin to build rather than at the peak of population growth.
Diafenthizone (Higran)	12A	Possesses contact & stomach activity with some ovicidal action.		0.5	Dried	Turf	Nil - registered for Couchgrass Mite. Very dangerous to fish and crustaceans. Exhibits translaminar movement through the leaf and fumigant activity to target the pests where they hide, resulting in immediate paralysis after contact or ingestion.
Etoxazole (Finesse)	10B	Targets egg, larvae and nymph stages however not the adult stage.		0.2	Dried	Turf	Very toxic to aquatic life.

Grass Eating Caterpillars

Lepidoptera

Bacillus thuringiensis (Delfin)	11C	Biological		25 - 100g/100L	NS		Armyworm.
Cyantraniliprole + Thiamethoxam (Spinner)	28 + 4A	Insect muscle paralysis leads to death. Anti-feeding		0.5	Dried	Established Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Very toxic to aquatic life.
Diazinon (Pennside)	1B	Contact		12.5 - 25.0	NS	Turf	African black beetle (NSW, QLD, SA, WA, VIC ONLY), Argentine Stem Weevil (NSW, VIC, SA, TAS, WA ONLY), Mole cricket (QLD & NSW ONLY) & Grass-eating caterpillars (NSW, QLD, VIC, WA ONLY).
Indoxacarb (Provaunt)	22A	Contact and ingestion leading to paralysis and to death.		0.375	Dried	Golf greens and surrounds	Argentine Stem Weevil larvae and adults. Caterpillars. Very toxic to aquatic life

Grass Webbing Mites

Oligonychus spp.

including

Oligonychus araneum

Oligonychus digitatus

Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals.

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
		target populations					Very toxic to aquatic life. Toxic to beneficial arthropods.
Grasshoppers							
Orthoptera including: - Australian Plague Locust <i>Chortoicetes terminifera</i> - Wingless Grasshoppers <i>Phaulacridium vittatum</i>							
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		0.4	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Mole Crickets							
Gryllotalpidae including - Changa Mole Cricket <i>Scapteriscus didactylus</i>							
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Diazinon (Pennside)	1B	Contact		20.0	NS	Turf	African black beetle (NSW, QLD, SA, WA, VIC ONLY), Argentine Stem Weevil (NSW, VIC, SA, TAS, WA ONLY), Mole cricket (QLD & NSW ONLY) & Grass-eating caterpillars (NSW, QLD, VIC, WA ONLY). Dangerous to fish.
Fipronil (Instar)	2B	Contact or ingestion		75 - 100	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Very toxic to aquatic life. In domestic turf situations, use is only by authorised lawn care specialists, professional pest managers or persons with relevant chemical handling certification.
Fipronil (Warden)	2B	Contact or ingestion		0.30	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Highly toxic to fish and aquatic organisms.
Fipronil (Monarch)	2B	Contact or ingestion		0.24	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Highly toxic to fish and aquatic organisms.
Fipronil (Fipronil 200SC)	2B	Contact or ingestion		0.15	Dried	Recreational Turf	Argentine Stem Weevil, Funnel Ant, Mole Cricket. Highly toxic to fish and aquatic organisms.

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
Nematodes							
Nematoda including: - Sting Nematode <i>Belonolaimus longicaudatus</i>							
Abamectin (Thumper/ Malice/Agador)	6	Contact		2.0	Dried	Couch	Registered for Couchgrass Mite. Also registered for soil borne parasitic ring and sting nematodes.
Fluopyram (Indemnify)	7	Contact		0.625	Dried	Turf	Plant parasitic nematodes including Sting, Spiral, Sheath, Ring, Root Lesion, Root-knot and Stubby. Very toxic to aquatic life.
Garlic Extract (Eco- NemGuard Liquid)	-	Contact		20.0	Dried	Amenity Turfgrass	Toxic to aquatic life.
Scarab Beetles							
Scarabaeidae including: - African Black Beetle <i>Heteronychus arator</i> - Argentinian Scarab <i>Cyclocephala signaticollis</i> - Black Beetle <i>Metanastes vulgivagus</i> - Blackheaded Cockchafer <i>Aphodius tasmaniae</i> - Blackheaded Pasture Cockchafer <i>Acrossidius tasmaniae</i> - Blackheaded Pasture Cockchafer <i>Acrossidius pseudotasmaiae</i> - Pruinose Scarab <i>Sericesthis geminata</i> - Redheaded Pasture Cockchafer <i>Adoryphorus coulonii</i>							
Bendiocarb (Ficam)	1A	Contact		1.3 - 1.8	NS	Golf greens and fairways, bowling greens and playing fields	Black Beetle (<i>Heteronychus spp.</i>). Dangerous to fish and other aquatic organisms.
Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		5.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Bifenthrin (Sentinel 2G)	3A	Contact. Quick knockdown of target populations		120 - 180	NS	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant. Dangerous to fish and other organisms.
Bifenthrin (Sentinel 80SC)	3A	Contact. Quick knockdown of target populations		1.5 - 4.5	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant,

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
							Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to aquatic organisms.
Bifenthrin (Biff/ Rumbler/Venom) 	3A	Contact. Quick knockdown of target populations		2.5 - 3.6	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to fish or other aquatic organisms.
Chlorantraniliprole (Acelepryn WG)	28	Insect muscle paralysis leads to death.		75 - 150	NS	Golf courses, Lawns including commercial and residential lawn areas, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Chlorantraniliprole (Acelepryn)	28	Insect muscle paralysis leads to death.		0.75 - 1.5	Dried	Golf courses, Lawns including commercial and residential lawn areas, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Clothianidin (Stealth)	4A	Systemic		0.5 - 0.75	NS		Registered for 1st instar African Black Beetle larvae & Billbug larvae. This product is highly toxic to aquatic invertebrates.
Cyantraniliprole + Thiamethoxam (Spinner)	28 + 4A	Insect muscle paralysis leads to death. Anti-feeding		1.0	Dried	Established Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Very toxic to aquatic life.
Diazinon (Pennside)	1B	Non-systemic, respiratory, contact, stomach		12.5 - 25.0	NS		African black beetle (NSW, QLD, SA, WA, VIC ONLY), Argentine Stem Weevil (NSW, VIC, SA, TAS, WA ONLY), Mole cricket (QLD & NSW ONLY) & Grass-eating caterpillars (NSW, QLD, VIC, WA ONLY). Dangerous to fish.
<i>Heterorhabditis zealandica</i> (Ecogrow)		Biological		7 x bowling packs	NS		For control of scarabs including: Argentine Scarab African Black Beetle, Red-headed Cockchafer, Black-headed Cockchafer; weevils - Black Vine Weevil, Argentine Stem Weevil & Bill Bug. Only apply Beneficial Nematodes at dusk outdoors. Do NOT apply at other times, even if it is overcast, as they cannot tolerate high UV light i.e direct sun. Once nematodes are applied, they will infect and stop the larvae feeding within 24-48 hours, and allow the turf and plants to start to recover. The product must not be refrigerated. Soil temperatures need to be above 15C at the time of application for the beneficial nematodes to be active.

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
Imidacloprid (Mallet/Merit/ Pride/Recruit)	4A	Systemic, contact, stomach		2.5		Turf	Registered for the control of African Black Beetle, Argentinian Scarab, Pruinose Scarab & larvae of Billbug.
Novaluron + Indoxacarb (Qualipro Twister)	15 + 22A	Contact and ingestion leading to paralysis and to death.		3.0	Dried	Turf	African Black Beetle, Argentine Stem Weevil, Billbug. For PROFESSIONAL use only. Toxic to beneficial arthropods.
Tetraniliprole (Tetrino)	28	Anti-feeding		1.15 - 2.3	NS	Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Toxic to beneficial arthropods. Very toxic to aquatic life.
Thiamethoxam (Columbus/ Meridian)	4A	Systemic, contact, stomach		0.8 - 1.2	-	Turf/Lawns	Registered for the control of 1st instar larvae of African Black Beetle, 1st & 2nd instar larvae of Argentinian Scarab, larvae of Billbug.

Webworms

Pyralidae
including:

- **Couchgrass Webworm**

Faveria tritalis

- **Pasture Web Worm**

Hednota spp.

- **Sod Webworm / Grass Caterpillar**

Herpetogramma licarsialis

Betacyfluthrin (Tempo)	3A	Contact. Quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite, Ants & grasshoppers. Very toxic to aquatic life.
Betacyfluthrin + Imidacloprid (Tempo Xtra)	3A + 4A	Contact and anti - feeding, quick knockdown of target populations		2 - 4.0	Dried	Turf	Registered in turf for the control of Armyworm, Cutworm, Webworm, adult Billbug, larae billbug, adult Argentine Stem Weevil, adult Scarabs (including African Black Beetle), Mole Crickets, Couch Mite & grasshoppers. Toxic to mammals. Very toxic to aquatic life. Toxic to beneficial arthropods.
Bifenthrin (Sentinel 2G)	3A	Contact. Quick knockdown of target populations		60.0	NS	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant. Dangerous to fish and other organisms.
Bifenthrin (Sentinel 80SC)	3A	Contact. Quick knockdown of target populations		1.5	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant, Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to aquatic organisms.
Bifenthrin (Biff/ Rumbler/Venom)	3A	Contact. Quick knockdown of target populations		1.2	Dried	Turf	Registered in turf for the control of Lawn Armyworm, Sod Webworm, Argentine Stem Weevil adults, African Black Beetle adults, Billbug adults, Black Ant, Coastal Brown Ant, Funnel Ant,

Pest Active Ingredient	Chemical Group	Activity	Bee safety	Rate L/Ha	Re-entry	Turf Type	Comments
							Meat Ant, Sugar Ant, Stinging Ant ONLY. Dangerous to fish or other aquatic organisms.
Chlorantraniliprole (Acelepryn WG)	28	Insect muscle paralysis leads to death.		75	NS	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Chlorantraniliprole (Acelepryn)	28	Insect muscle paralysis leads to death.		0.75	Dried	Golf courses, Lawns, Sports grounds, Other sport and recreational turfgrass areas	African Black Beetle, Argentinian Scarab, Argentine Stem Weevil larvae, Billbug larvae, Black Cutworm, Lawn Armyworm, Sod webworm. Dangerous to aquatic invertebrates. Will provide up to 6 months protection at the higher application rates
Tetraniliprole (Tetrino)	28	Anti-feeding		1.15	NS	Turf	African Black Beetle larvae, Argentinian Scarab larvae, Argentine Stem Weevil larvae, Billbug larvae & caterpillars including Black Cutworm, Lawn Armyworm. Toxic to beneficial arthropods. Very toxic to aquatic life.

10.0 Plant growth regulators used in turf

PGRs can currently be divided into two groups, Type I and Type II, based on their method of growth inhibition or suppression. Work is however being undertaken to reclassify these. Type I inhibitors are primarily absorbed through the foliage and inhibit cell division and differentiation in meristematic regions. They are inhibitors of vegetative growth. Their growth inhibition is rapid, occurring within 4 to 10 days, and lasts 3 to 4 weeks, depending on application rate. Being herbicides, their margin of safety is narrow and very rate dependent.

Type II inhibitors are generally root absorbed and suppress growth through interference of gibberellic acid bio-synthesis, a hormone responsible for cell elongation. Type II PGRs are slower in growth suppression response, lasting from 4 to 7 weeks depending on application rate. Paclobutrazol is a root absorbed Type II Inhibitor whilst trinexapac-ethyl is a foliar absorbed Type II PGR and is systemically translocated to the site of activity. Root absorbed PGRs such as paclobutrazol are activated by irrigation or rainfall following application and consequently the chance of over-lap leaf burn is significantly reduced.

Foliar absorbed materials such as trinexapac-ethyl would require uniform and complete coverage for uniform response and must be leaf absorbed before irrigation or rainfall occurs. Usually, low volume sprays are used for foliar absorbed materials to minimise runoff from the leaf surface while high volume sprays are used for root absorbed materials.

* Traditionally turf growth regulators were classified Type I (cell division inhibitor), or Type II (Giberellic Acid inhibitor). A more detailed classification is currently being adopted where these are now classified as Class A, B, C, or D.

Class A - Stop the production of Gibberellic Acid late in the biosynthetic pathway.

Class B - Stop the production of all forms of GA early in the biosynthetic pathway.

Class C - Stop cell division.

Class D - Includes herbicides that are used as PGRs

Class D - Includes herbicides that are used as PGRs.

Active ingredient	Class	Turf variety / Situation	Rate L/Ha	Use and comments	Reentry Period	Bee Safety	Chem. group
Ethephon (Intercept 480SL/Incognito 480SL) 		Cool season turf, golf greens	7-10.0	Suppression of Wintergrass (<i>Poa annua</i>) seedhead formation. DO NOT re-apply INTERCEPT® 480SL within 2 weeks of the initial application. A period of 2-3 weeks after application is required for maximum seed head suppression performance. A repeat application is required in 14-21 days.	4 Hours		Ethylene generator
Paclobutrazol (Shortstop 200SC/Regulate) 	B	Bent Grass, Ryegrass, Kentucky Bluegrass, Couchgrass, <i>Poa annua</i> turfgrass	0.5-2.0	Apply the 0.5 L/ha rate at 2 - 4 week intervals or the 1-2 L/ha rate at 4 - 8 week intervals. Use only the low rate (0.5 L/ha) on winter grass. Continue normal cultural practices after application.	Dried		Triazole
		Bent Grass, Ryegrass, Kentucky Bluegrass, Couchgrass, <i>Poa annua</i> turfgrass	2-2.8	Use the lower rate when the percentage of winter grass in the turf is so high that the resultant yellowing and retardation would be too extensive to be acceptable. Otherwise use the higher rate. Do not apply more than 2 spring or 1 autumn application. Continue normal cultural practices after application.	Dried		Triazole

Turf Growth Management

Trinexapac-Ethyl (Primo Maxx/Marvel Ultra/Amigo 120) 	C	Golf Course Greens	1.0-2.0	Bent Grass	Apply at least 6 hours before or after mowing and when turf is actively growing. DO NOT apply if rainfall is expected within 1 hour, and DO NOT irrigate turf for at least 1 hour after application. Dangerous to fish larvae and oysters.	Dried	Gibberellin inhibitor
			0.15-0.6	Hybrid couch			
		Golf Course Fairways	1.6-4.0	Carpet grass, kikuyu			
			0.8-1.6	Common Couch			
			0.6-1.2	Couch var. Greenlees Park, Wintergreen, Santa Ana			
			1.6-3.0	Fescue, Perennial Ryegrass			
		Golf course short roughs, well maintained lawns, general turf surfaces	2-4.0	Bahia Grass, Bent Grass, Fescue, Perennial Ryegrass			
			1-2.0	Buffalo Grass, Common Couch, Hybrid Couch			
		Golf courses long roughs, parks, ovals, lawns, general grassed areas	1.6-6.0	Kikuyu			
			2-6.0	Bent Grass, Fescue, Perennial Ryegrass			
			1-4.0	Buffalo Grass, Common Couch, Hybrid Couch			
			2-8.0	Kikuyu			
		Bunker facing, path and garden edging, Footpath and curb side edging, Fence lines, around trees	4-6.0	Bent grass, Common Couch, Perennial Ryegrass.			
			4.0	Buffalo Grass			
			4.0	Couch varieties: Greenless Park, Santa Ana, Wintergreen			
			6-8.0	Kikuyu			

Winter grass (*Poa annua*) Management

Active ingredient	Class	Turf variety / Situation	Rate L/Ha	Use and comments		Reentry Period	Bee Safety	Chem. group
Golf course fairways, Golf course greens	C	Winter Grass (Poa annua)	0.4-1.0					
Bahia Grass (<i>Paspalum notatum</i>) Suppression and Seedhead Control								
Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia only in golf course long roughs, lawns, median strips, ovals, parks, roadsides, grass areas.	C	Bahia Grass (<i>Paspalum notatum</i>) suppression and seedhead control	2 to 4 L plus 75 mL/ha Monument® or Recondo Liquid Turf Herbicide plus 0.25 to 0.42% v/v non-ionic surfactant (such as Agral® Spray Adjuvant)			Apply during summer when Bahia Grass produces seedheads. DO NOT apply more than 2 consecutive applications of Monument Liquid per season. Refer to Application section for detailed information. Important: Refer to the Monument Liquid label for specific directions on mixing, avoiding spray drift, sprayer cleanup and protection of non-target crops and the environment		
Trinexapac-Ethyl (Marvel 175EC)	C	Golf Course Greens	0.7 - 1.4	Bent Grass		Apply at least 6 hours before or after mowing and when turf is actively growing. DO NOT apply if rainfall is expected within 1 hour, and DO NOT irrigate turf for at least 1 hour after application. Dangerous to fish larvae and oysters.	Dried	Gibberellin inhibitor
		Golf Course Fairways	0.5-1.0	Common Couch				
			0.4-0.8	Couch var. Greenlees Park, Wintergreen, Santa Ana				
			1-2.0	Fescue, Perennial Ryegrass				
			1- 2.75	Carpet grass, kikuyu				
		Golf course short roughs, well maintained lawns, general turf surfaces	0.7-1.4	Buffalo Grass, Common Couch, Hybrid Couch.				
			1.4-2.75	Bent Grass, Fescue, Perennial Ryegrass				
			1-4.0	Kikuyu				
		Golf courses long roughs, parks, ovals, lawns, general grassed areas	0.7-2.75	Buffalo Grass, Common Couch, Hybrid Couch				
			1.4-5.5	Kikuyu				
			1.4-4.0	Bent Grass, Fescue, Perennial Ryegrass				
				Kikuyu				
		Bunker facing, path and garden edging, Footpath and curb side edging, Fence lines, around trees	2.75	Buffalo Grass. Couch varieties: Greenless Park, Santa Ana, Wintergreen.				
			2.75-4.0	Bent grass, Common Couch, Perennial Ryegrass.				
			4-5.5	Kikuyu				
Winter grass (Poa annua) Management								
Golf course fairways, Golf course greens	C	Winter Grass (Poa annua)	0.275-0.7			Apply at least 6 hours before or after mowing and when turf is actively growing. DO NOT apply if rainfall is expected within 1 hour, and DO NOT irrigate turf for at least 1 hour after application. Dangerous to fish larvae and oysters.	Dried	Gibberellin inhibitor
Trinexapac-Ethyl (Primo 250EC/	C	Golf Course Greens	0.5-1.0	Bent Grass				
			0.4-0.8	Common Couch				
		Golf Course Fairways	0.3-0.6	Couch var. Greenlees Park, Wintergreen, Santa Ana				
			0.8-1.5	Fescue, Perennial Ryegrass				
			0.8-2.0	Carpet grass NSW/QLD, kikuyu				
		Golf course short	0.5-1.0	Buffalo Grass. Qld, NSW, WA only.				

Active ingredient	Class	Turf variety / Situation	Rate L/Ha	Use and comments		Reentry Period	Bee Safety	Chem. group
		roughs, well maintained lawns, general turf surfaces	1-2.0	Bent Grass, Fescue, Perennial Ryegrass	application. Dangerous to fish larvae and oysters.			
				Common Couch, Hybrid Couch				
		Golf courses long roughs, parks, ovals, lawns, general grassed areas	0.8-3.0	Kikuyu				
			0.5-2.0	Buffalo Grass. Qld, NSW, WA only.				
			0.5-2.0	Common Couch, Hybrid Couch				
			1.6-6.0	Kikuyu				
			1-3.0	Bent Grass, Fescue, Perennial Ryegrass				
			1-4.0	Kikuyu				
		Bunker facing, path and garden edging, Footpath and curb side edging, Fence lines, around trees	2.0	Buffalo Grass. Qld, NSW, WA only.				
				Couch varieties: Greenless Park, Santa Ana, Wintergreen. Qld, NSW, WA only				
				Bent grass, Common Couch, Perennial Ryegrass.				
			3-4.0	Kikuyu				

Winter grass (*Poa annua*) Management

Golf course fairways, Golf course greens	C	Winter Grass (<i>Poa annua</i>)	0.2-0.5		Dried	
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Bahia Grass (*Paspalum notatum*) Suppression and Seedhead Control

Common Couch, Durban Grass, Hybrid Couch, Qld Blue Couch, Zoysia only in golf course long roughs, lawns, median strips, ovals, parks, roadsides, general grassed areas.	C	Bahia Grass (<i>Paspalum notatum</i>) suppression and seedhead control	1 to 2 L plus 75 mL/ha Monument® Liquid Turf Herbicide plus 0.25 to 0.42% v/v non-ionic surfactant (such as Agral® Spray Adjuvant)	Apply during summer when Bahia Grass produces seedheads. DO NOT apply more than 2 consecutive applications of Monument Liquid per season. Refer to Application section for detailed information. Important: Refer to the Monument Liquid label for specific directions on mixing, avoiding spray drift, sprayer cleanup and protection of non-target crops and the environment		
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11.0 Pigments and dyes used in turf

Product Name (Brand)	Label dilution rate (L colourant)	Approximate Rate L/Ha	Comments
Ambient Plus (GTS)	1.2-2.4:400L	1.2-2.4	Copper phthalocyanine green
Bigfoot Spray marker dye (Amgrow)	0.6-1.5:400L	0.6-1.5	93g/L Sulphonated aromatic acid
Big Red spray dye (Sipcam)	0.2-0.4:400L	0.2-0.4	150g/L Rhodamine B
Blazon (Campbell)	0.800-1.2:400L	0.800-1.2	Polymeric liquid colorant. Non-staining spray indicator used to identify blocked nozzles and reduce costly overlapping.
Foursome® Pigment (Adama)	1.2-2.4:400L	12– 2.4	Copper phthalocyanine green
Green Lawnger® (BASF)	1:9-20:400L	34-100	Copper phthalocyanine green
Green Pig® Ultra (Globe Australia)	0.7-2.5: 400L	0.7-2.5	Copper phthalocyanine green
Indigo Blue spray dye (Indigo Specialty)	0.6-1.0:400L	0.6-1.0	90g/L Sulphonated aromatic acid dye
Ryder (Syngenta)	0.75-2.0:250-500L	0.75-2.0	Copper phthalocyanine green
Sensi-Pro® (Various)	0.9-1.4: 475L	0.9-1.4	Copper phthalocyanine green
Tracker Pro (Amgrow)	0.4-1.5:400L	0.4-1.5	93g/L Sulphonated aromatic acid
Tru-Blue spray indicator	0.6-1:400	0.6-1.0	Sulphonated aromatic acid dye
Turfaid (Indigo)	1:400L	1.0	Copper phthalocyanine green plus elicitors and APG wetter
Vertmax® (Gilba Solutions)	0.3-1.2:400L	0.3-1.2	Copper phthalocyanine green
Vertmax® Duo (Gilba Solutions)	1:400L	1.0	Copper phthalocyanine green plus elicitors and APG wetter
Verdant® (Living Turf)	1.1-1.5:300L	1.25	Copper phthalocyanine green
Vision Pro® (BASF)	1.2:300-400L	1.2	Copper phthalocyanine green

LD50 of Turf Registered Pesticides

Active ingredient	Oral LD50 (Rats)	Dermal LD50 (Rats)
2,4-D Amine	375 - 666	1,500
Amicarbazone	> 2,000 (males); 1105 (females)	> 5,000
Amitrole	> 2,000	> 2,000
Azoxystrobin	> 5,000	> 2,000
Bendiocarb	141-250	>1,000
Bentazone	1,100	> 2500
Benzalkonium chloride	240	1,420
Bifenthrin	375	> 2000
Bispyribac-Sodium	> 5,000	> 5,000
Bitertanol	> 5,000	> 5,000
Bromoxynil	400 (male)/ 238 (female)	> 2,000
Carfentrazone-ethyl	> 5,000	> 4,000
Chlorothalonil	>1,000	>10,000
Clethodim	1,360	> 5,000 rabbit
Clothianidin	> 2,000	> 4,000
Clopyralid	4,300 - 5,000	> 5,000
Cyfluthrin	1,213-1,410	> 5,000
Cyantraniliprole	> 5,000	> 5,000
Diazinon (Pennside)	> 5,000	> 2,000
Dichlobenil	3160	1350 rabbit
Dichlofop-methyl	563-693	> 2,000
Diflufenican	> 2,000	> 1,000
Dithiopyr	> 5,000	> 5,000
Endothal	233	481
Ethephon	4229	5730 rabbit
Ethofumesate	> 2,100	> 4,100
Etridiazole	1,077	1,366 rabbit
Fipronil	> 5,000	> 2,000
Florasulam	> 5,000	> 2,000
Fludioxonil	> 5,000	> 2,000
Fluopyram	> 2,000	> 2,000
Fluroxypyr	> 5,000	> 5,000
Fluxapyroxad	> 2,000	> 2,000
Foramsulfuron	3328	> 2420
Fosetyl aluminium	> 5,000	> 2,000

Glufosinate	1,620-2,000	4,000 rabbit
Glyphosate	5,000	> 5,000
Halosulfuron-methyl	> 8,800	> 2,000
Imidacloprid	> 768-1042	> 5,000
Indaziflam	> 2,000	> 2,000
Indoxacarb	976	> 5,000
Iodosulfuron-methyl	> 5,000	> 5,000
Iprodione	> 10,000	2,500
Isoxaben	Isoxaben	> 5,000
Mancozeb	> 8,000	> 15,000
MCPA	800	> 1,000
Mefenoxam	2965 (female)	> 5,000
MetalaxyI*	> 5,000	> 4,000
Methiozolin	> 2,500	> 2,000
Metolachlor	1,200 - 2,780	> 2,000
Metribuzin	1449 (female) – 2365 (male)	> 2,000
MSMA	900	-
Oryzalin	> 5,000	> 2,000 rabbit
Oxadiazon	> 5000	> 2000 rabbit
Oxyfluorfen	> 5,000	> 5,000
Paclobutrazol	5346	>1000 rabbit
Pendimethalin	> 4,000	> 2,000
Penthiopyrad	> 2,000	> 5,000
Procymidone	6,800	> 2,500
Prodiamine	> 5,000	> 5,000
Propiconazole	> 5,000	>5,000
Propyzamide	> 5,000	> 2,000
Prosulfuron	> 2,000	> 2,000
Quinclorac	> 2,000	> 5,000
Rimsulfuron	> 5,000	
Tebuconazole	> 5,000	> 5,000
Terbutylazine	> 3,000	
Tetraniliprole	> 2,000	> 2,000
Thiabendazole	3,100	
Thiamethoxam	> 5,000	> 5,000
Trifloxysulfuron sodium	> 5,000	>5,000
Trinexapac-ethyl	> 5,000	> 2,000

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